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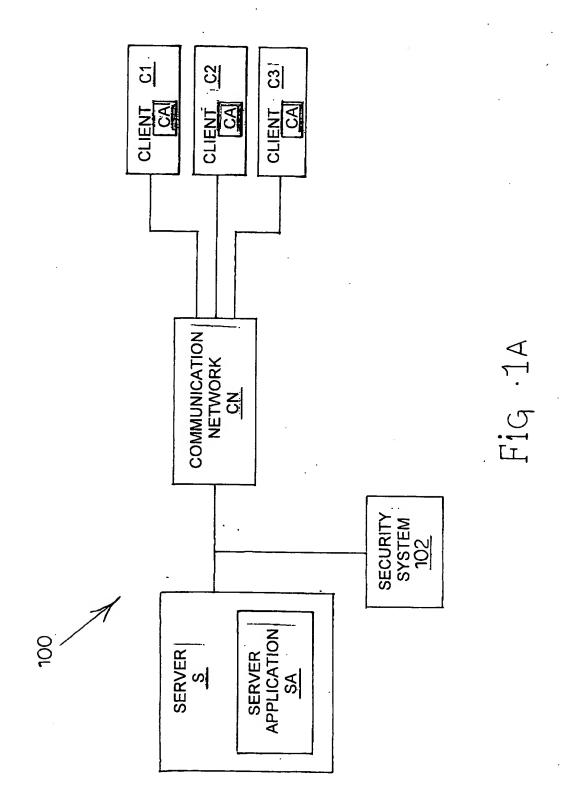
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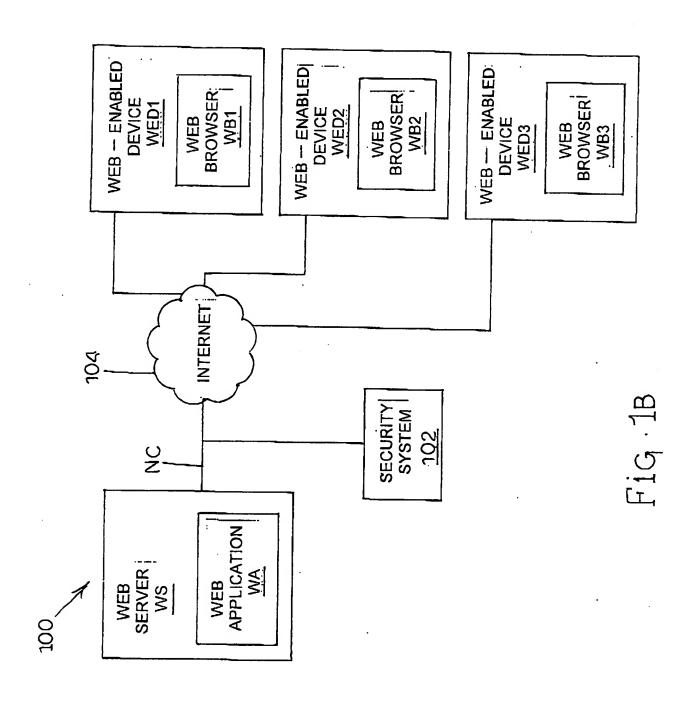
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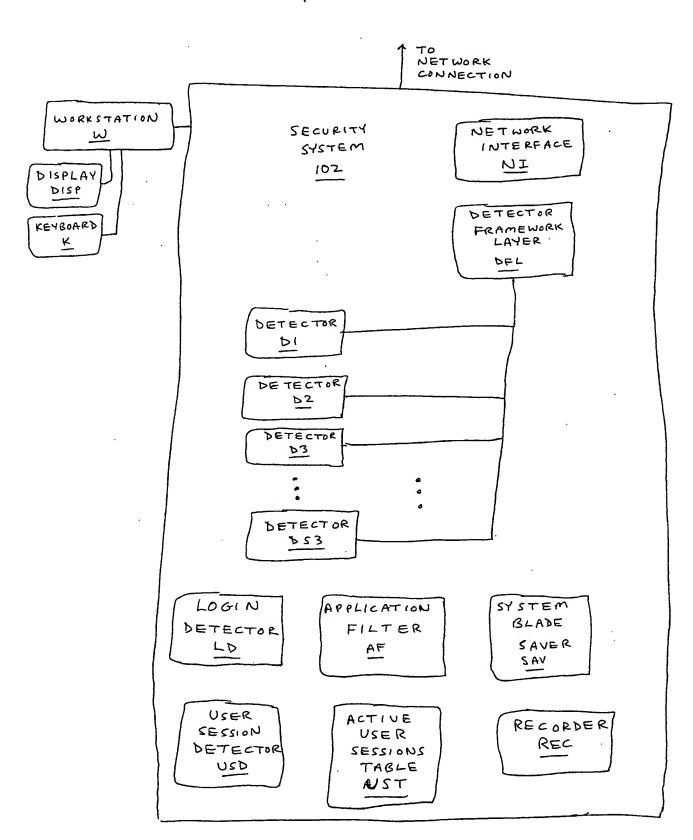
Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES

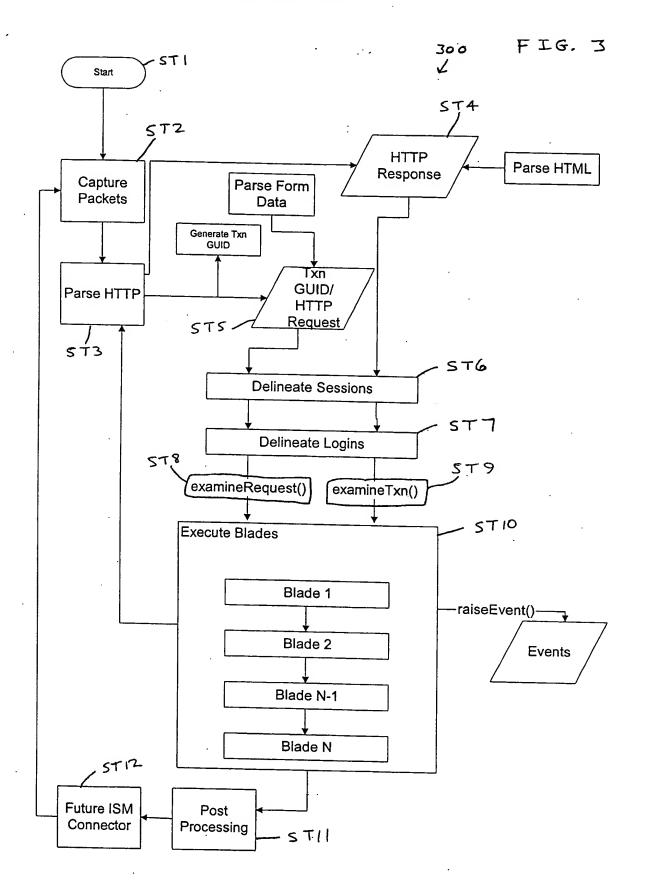
FOR A SERVER APPLICATION

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**\$** 

FIG. 2

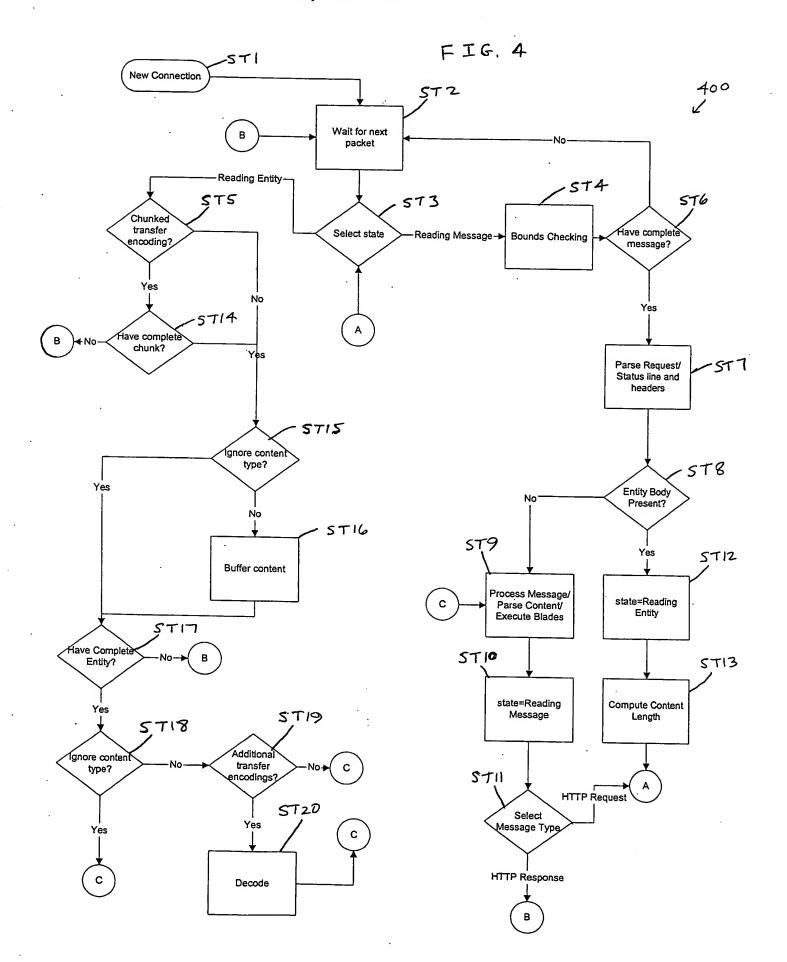


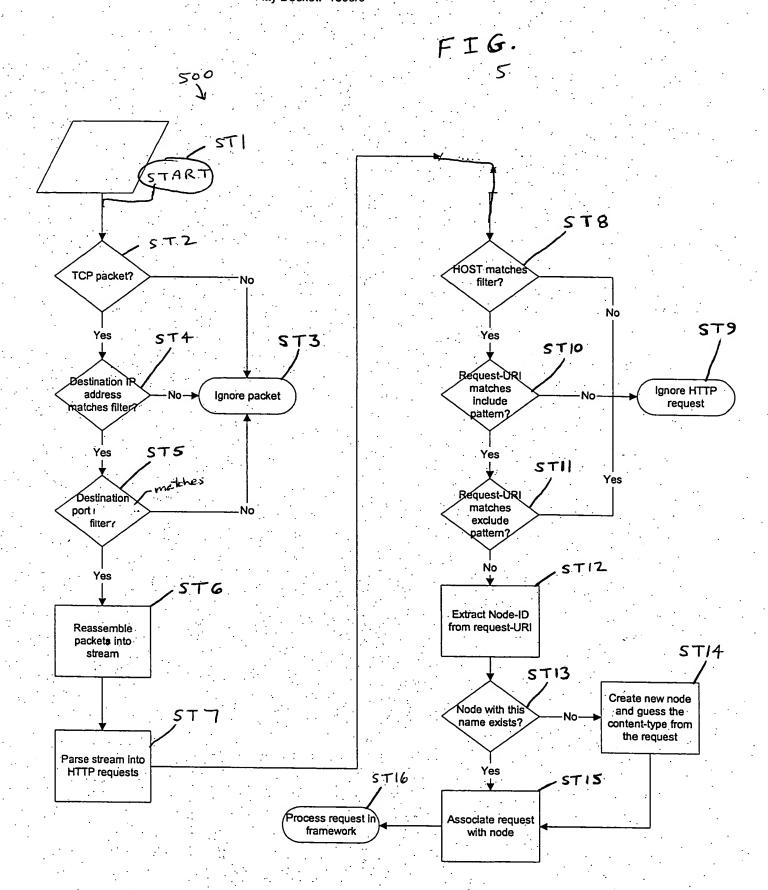


Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR

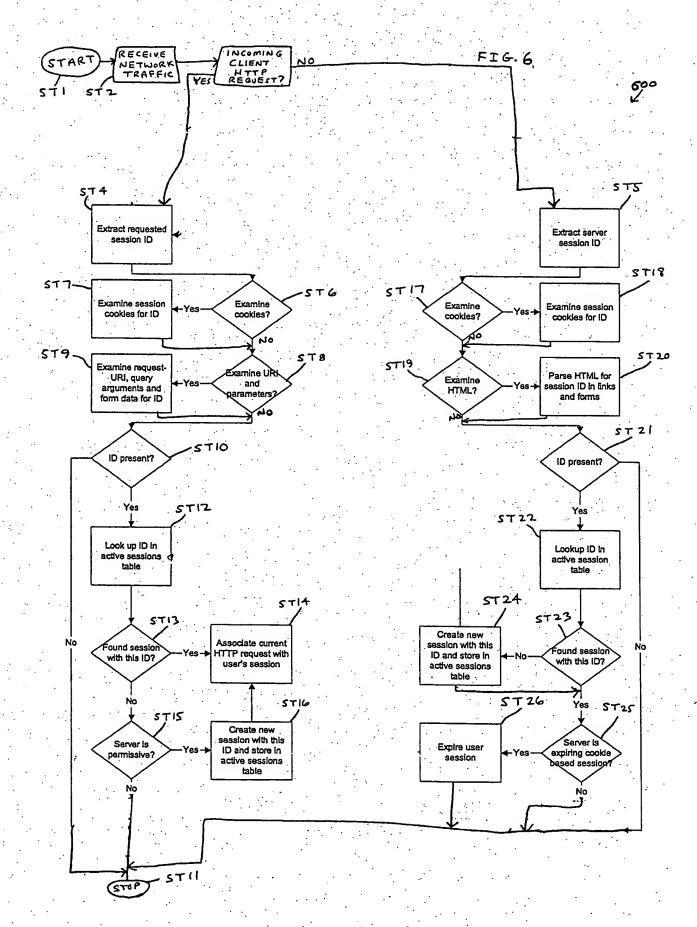
MONITORING PROTOCOL RESPONSES

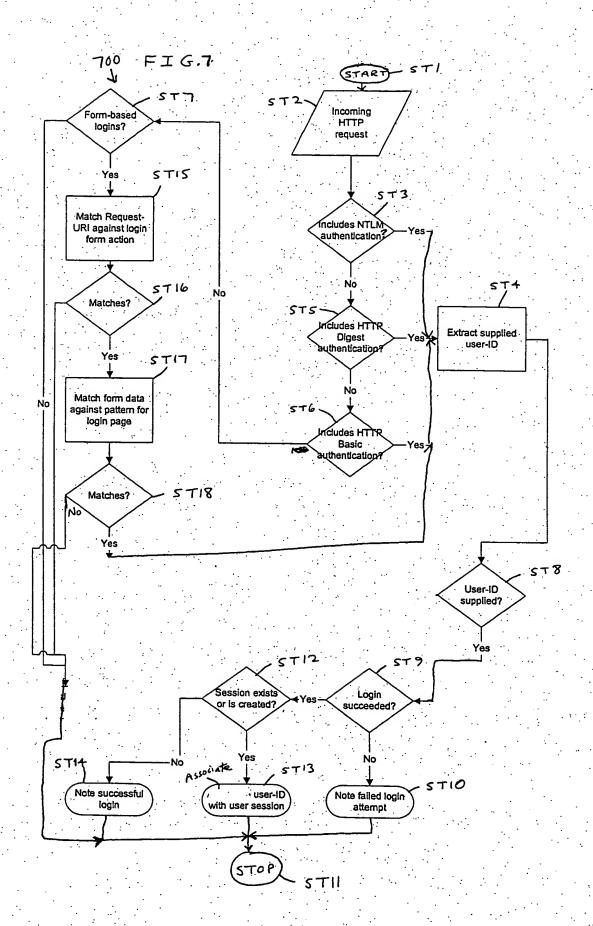
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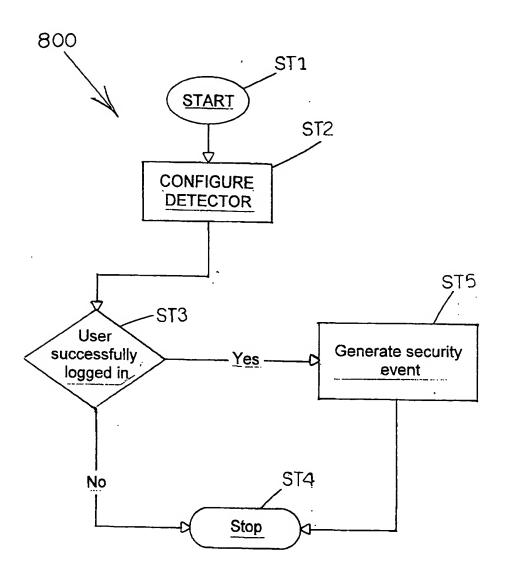


Fig.8

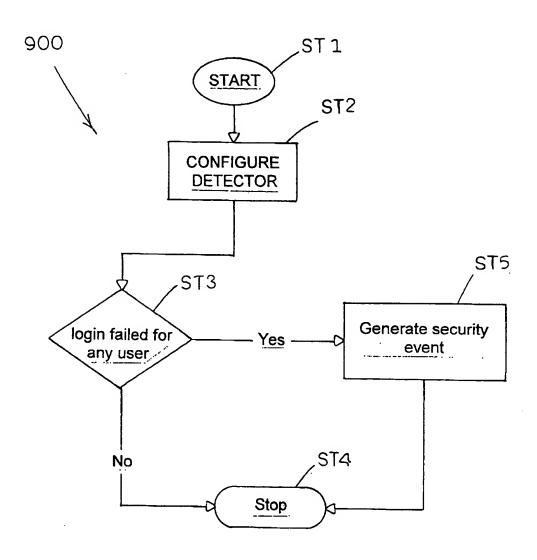
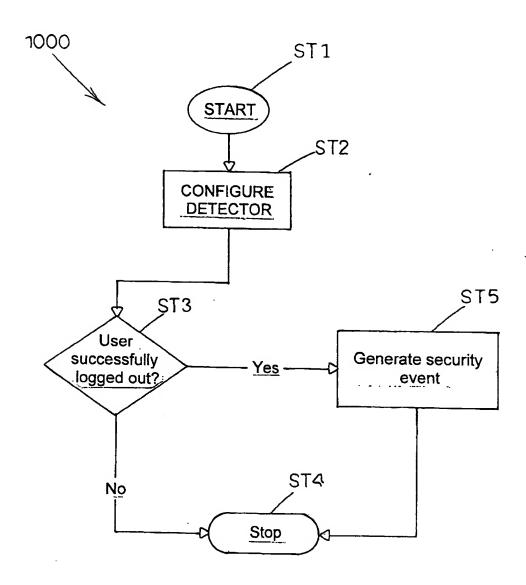
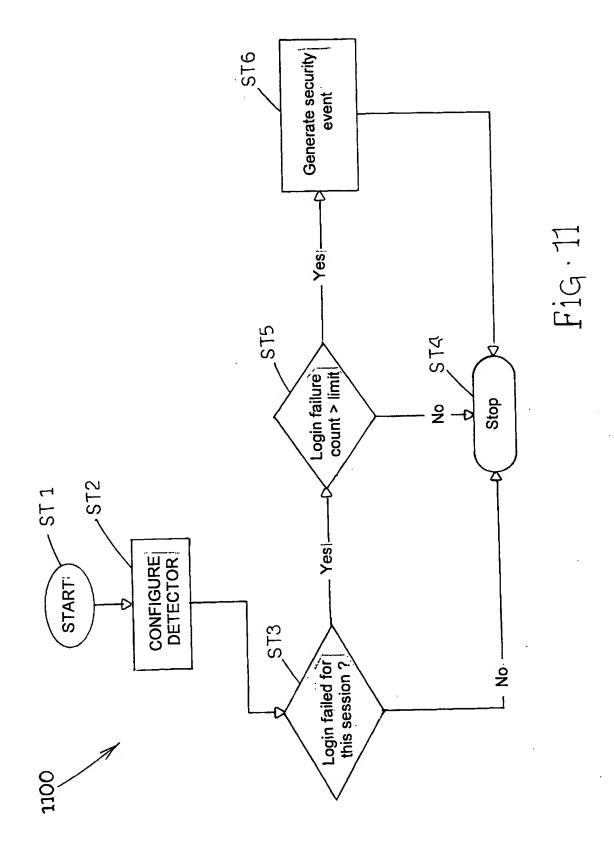
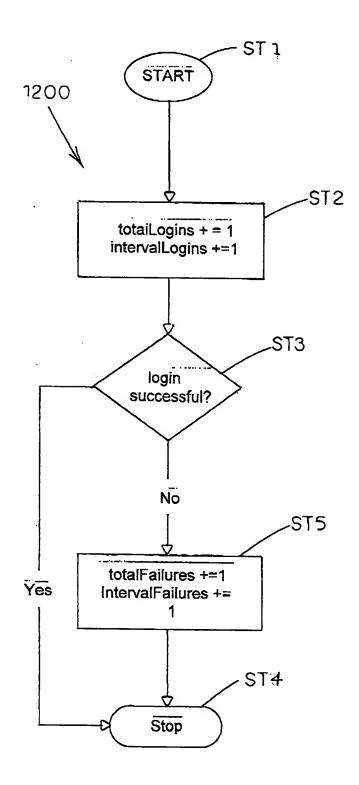


Fig.9



Fig·10





Fig·12A

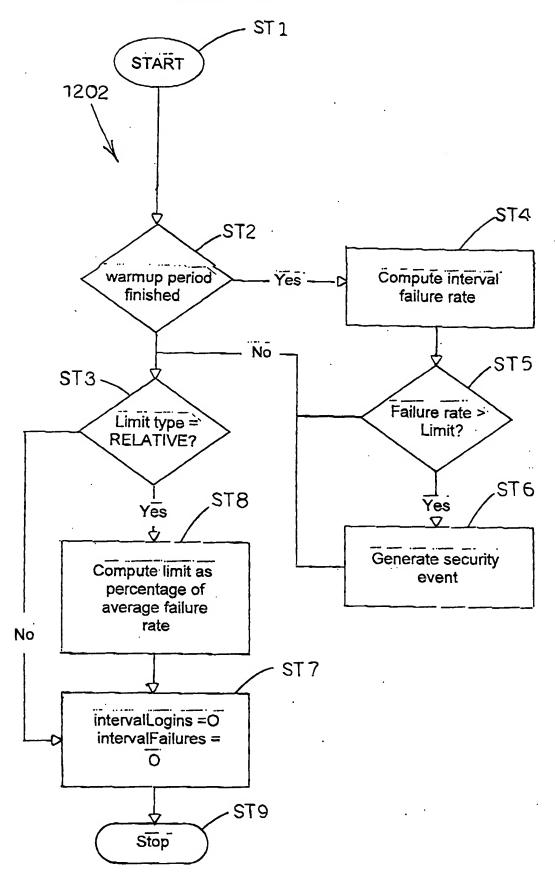
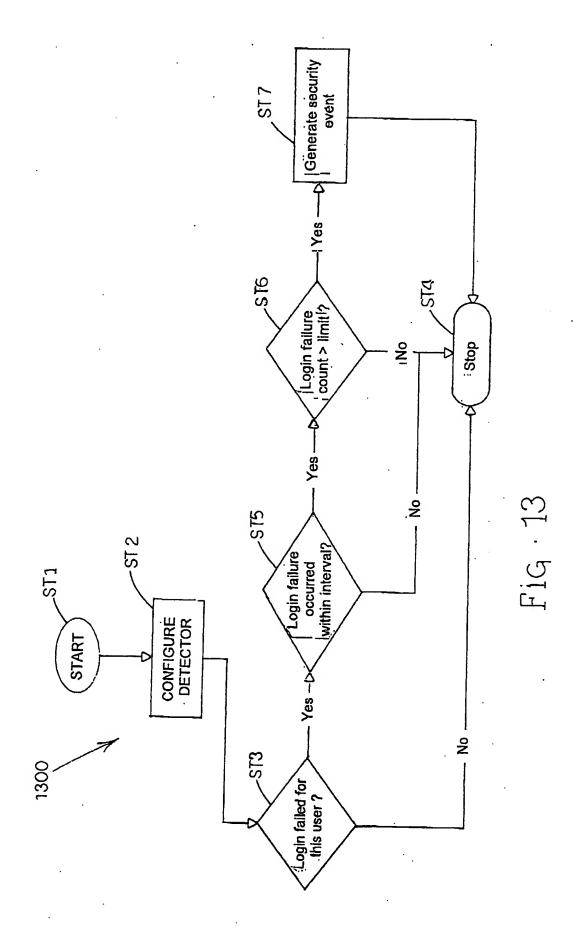
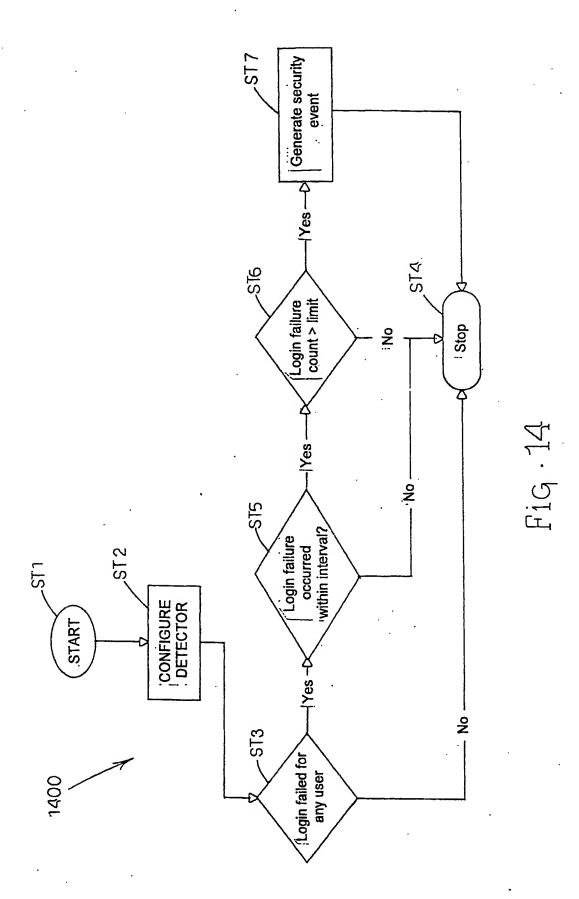
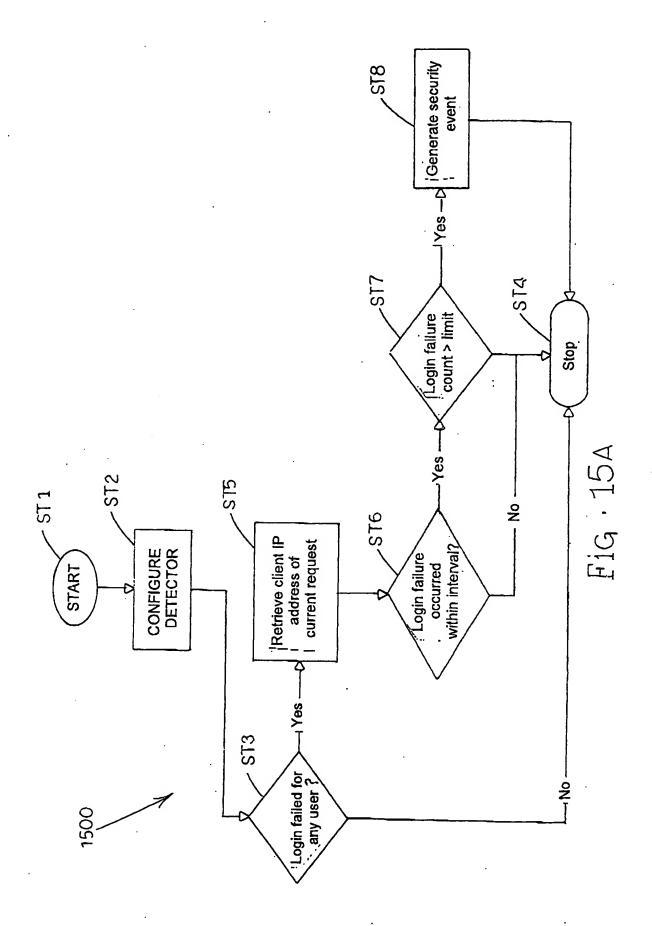
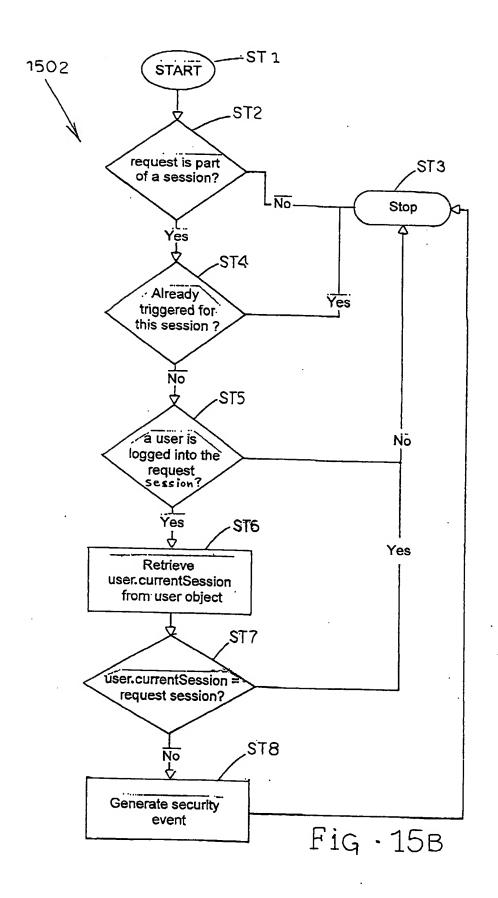


Fig · 12B









Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR

MONITORING PROTOCOL RESPONSES

FOR A SERVER APPLICATION

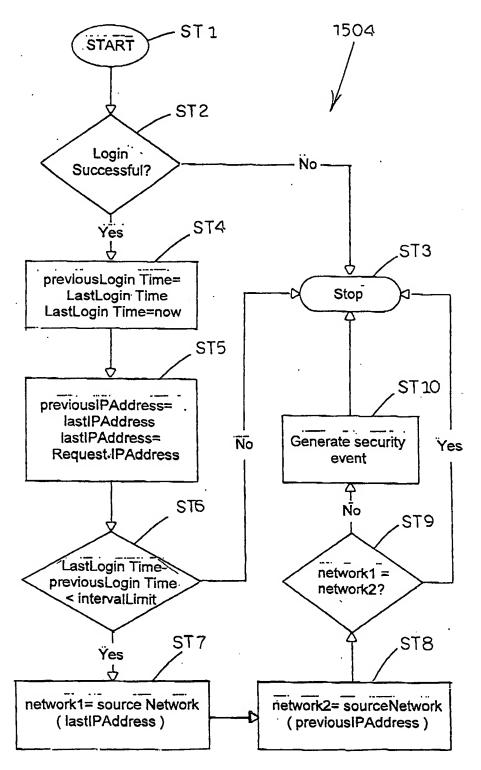
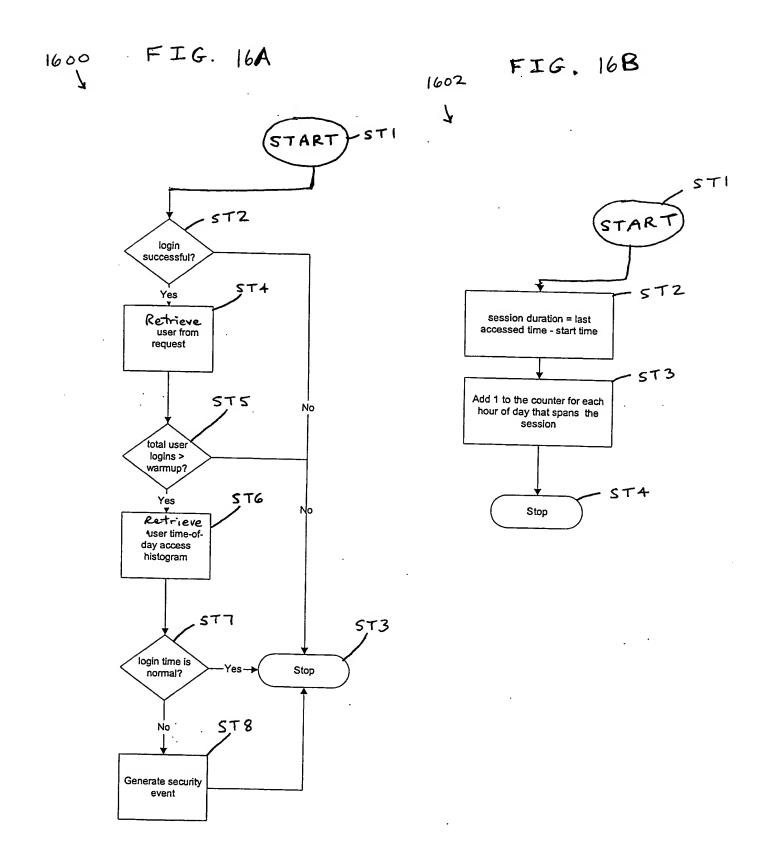


Fig. 15c



Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR

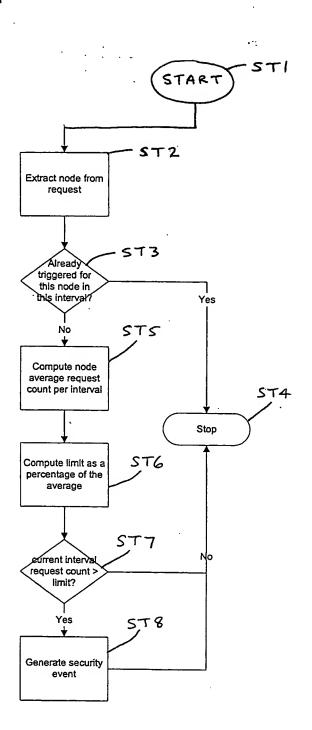
MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

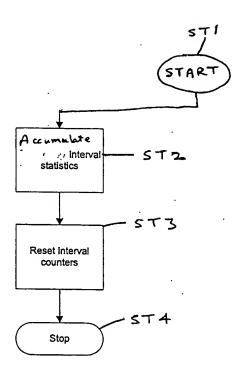
Atty Docket: 1503/9

FIG. 17A

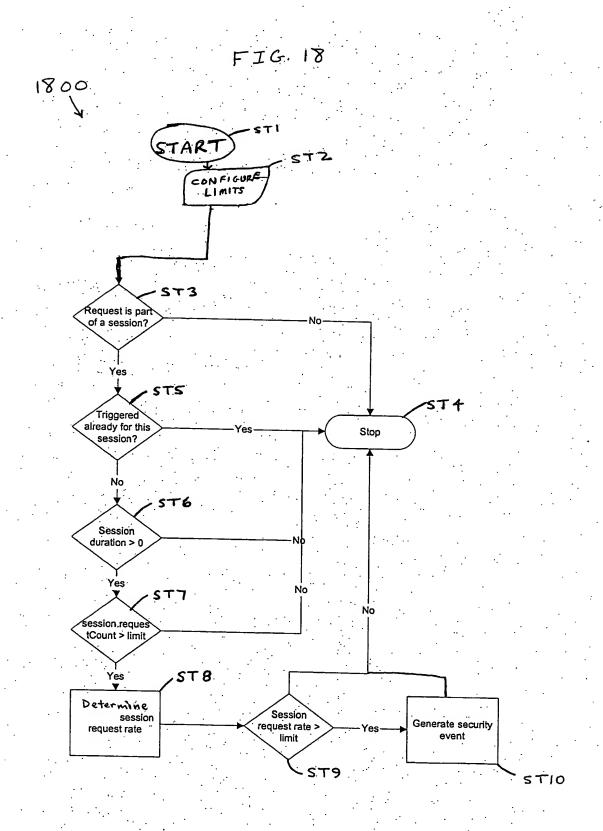
1700

17B FIG.





1702



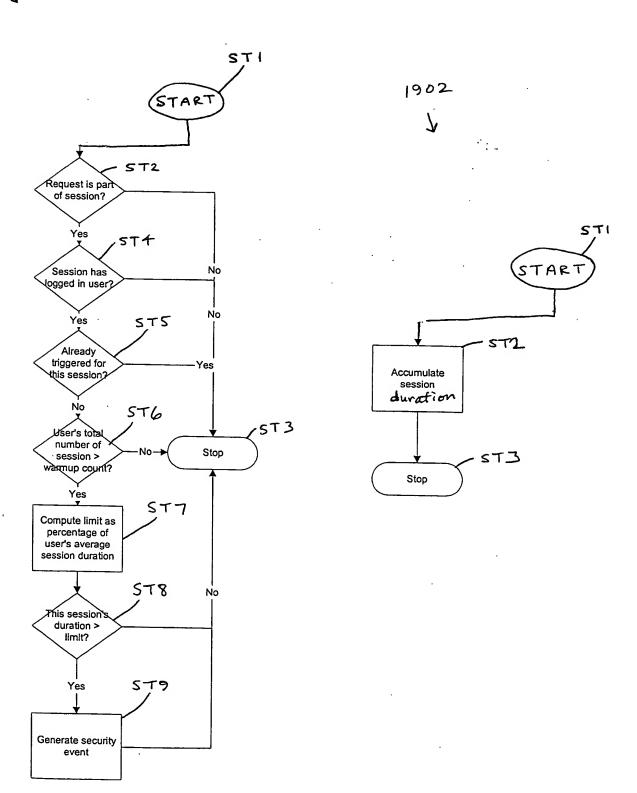
Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

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FIG. 19A

FIG. 19B

19 00

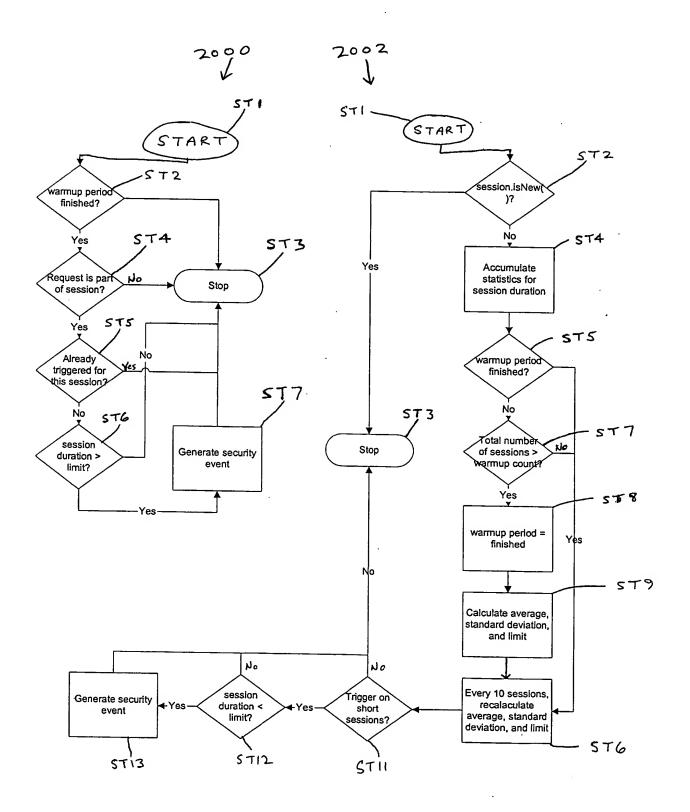


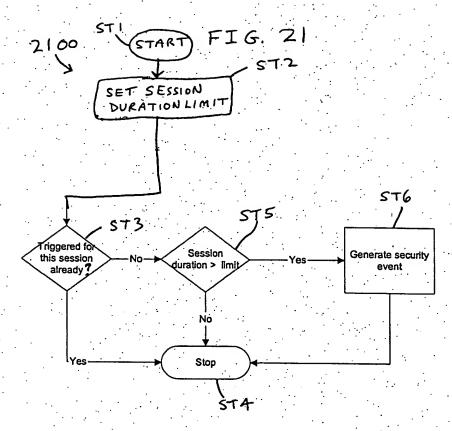
Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR

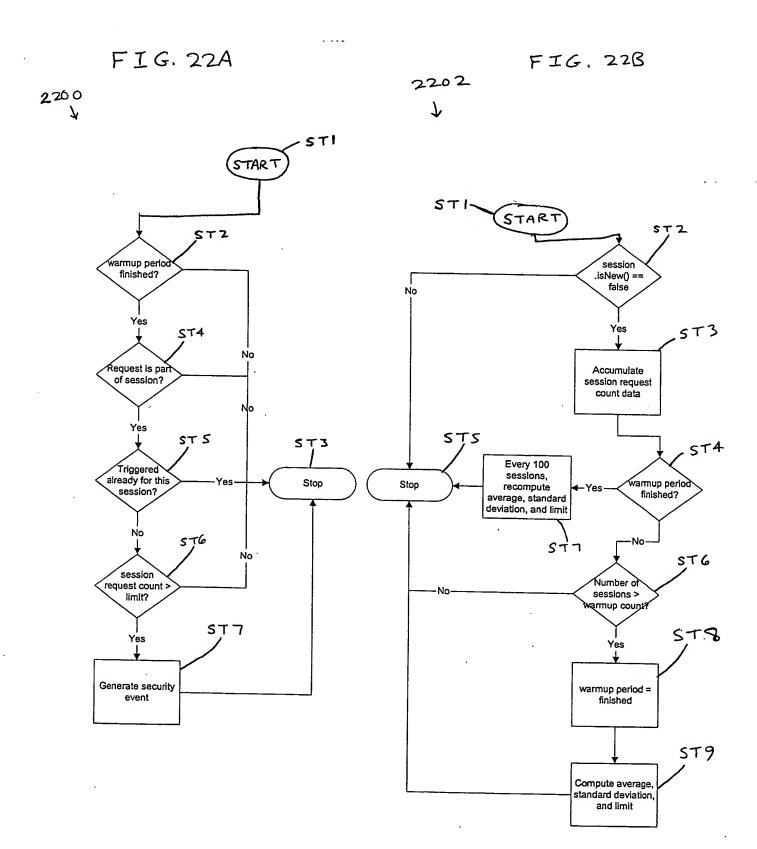
MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

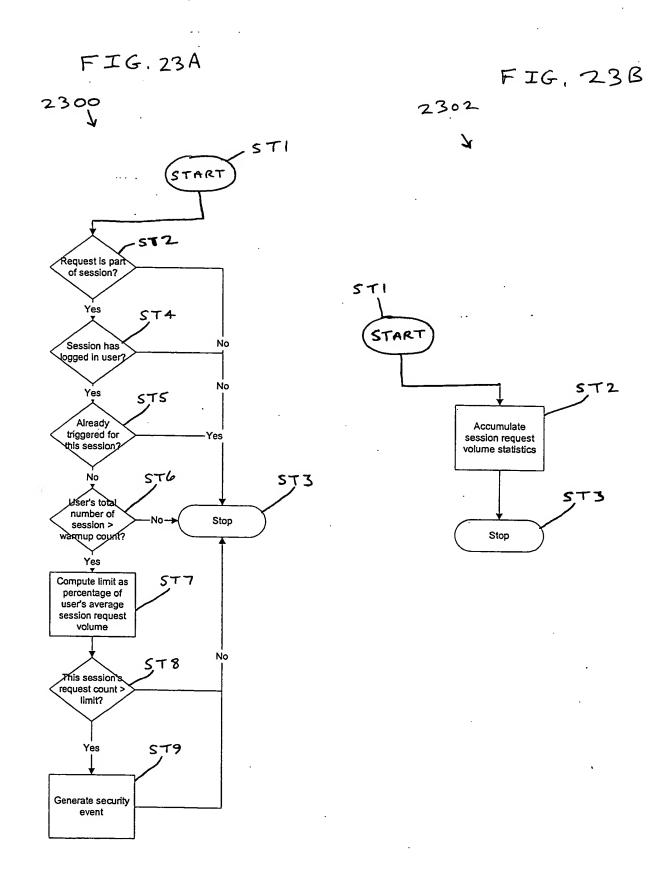
FIG. 20 A

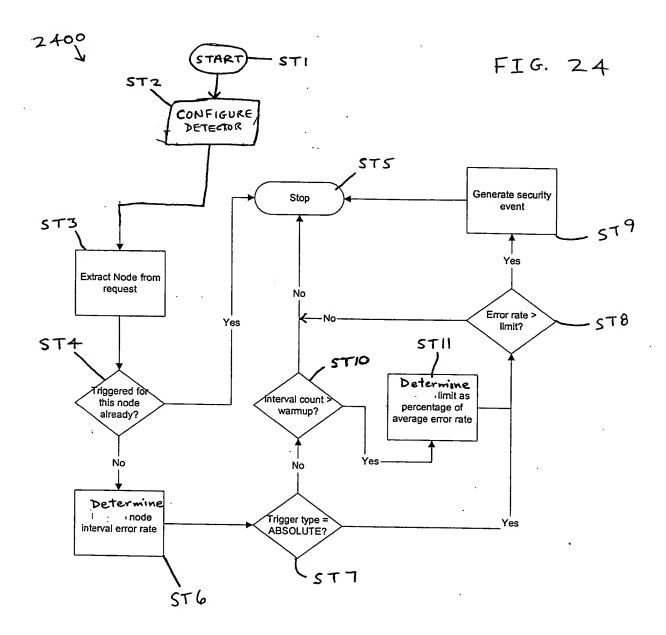
FIG: 20B

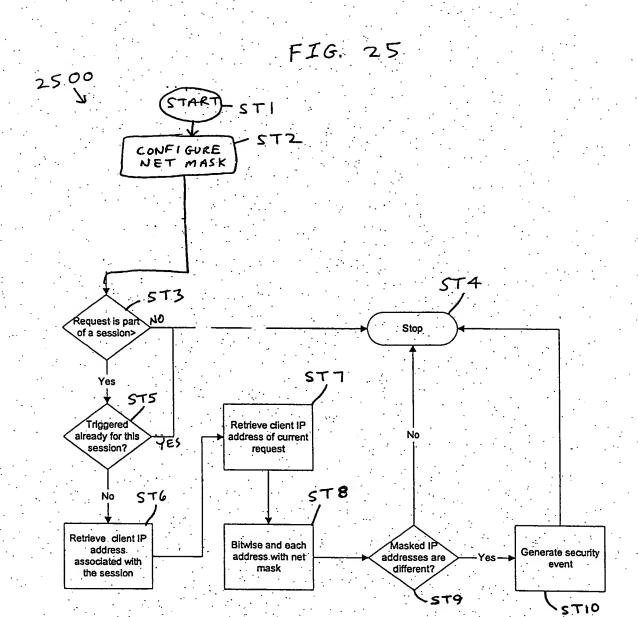












Yes-

Generate security event

STB

> la requested session ID found in active

sessions table?

576

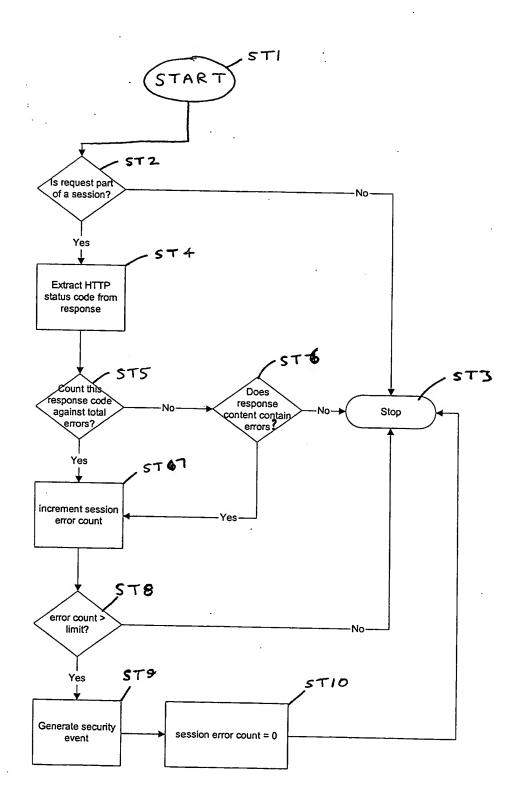
Yes

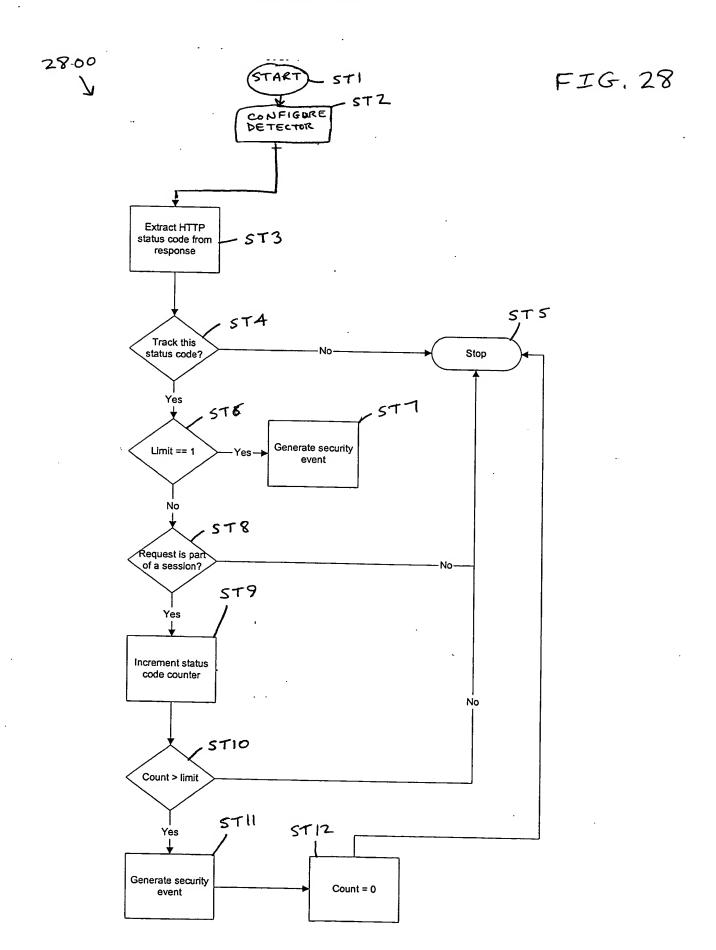
Extract requested session ID

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2700

FIG. 27

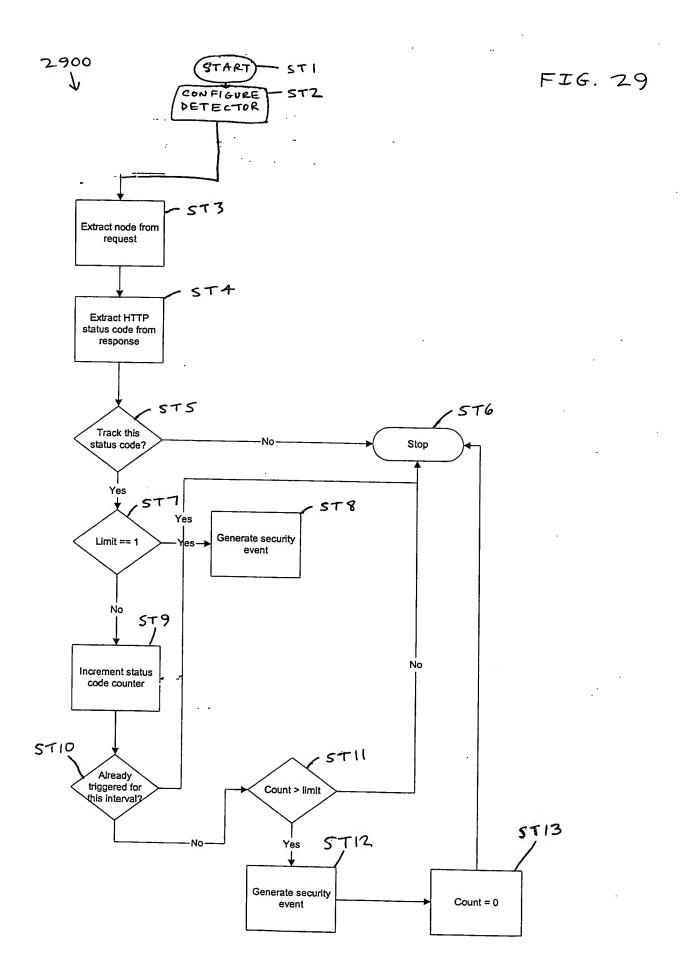




Title: METHODS, SYSTEMS AND COMPUTER

PROGRAM PRODUCTS FOR

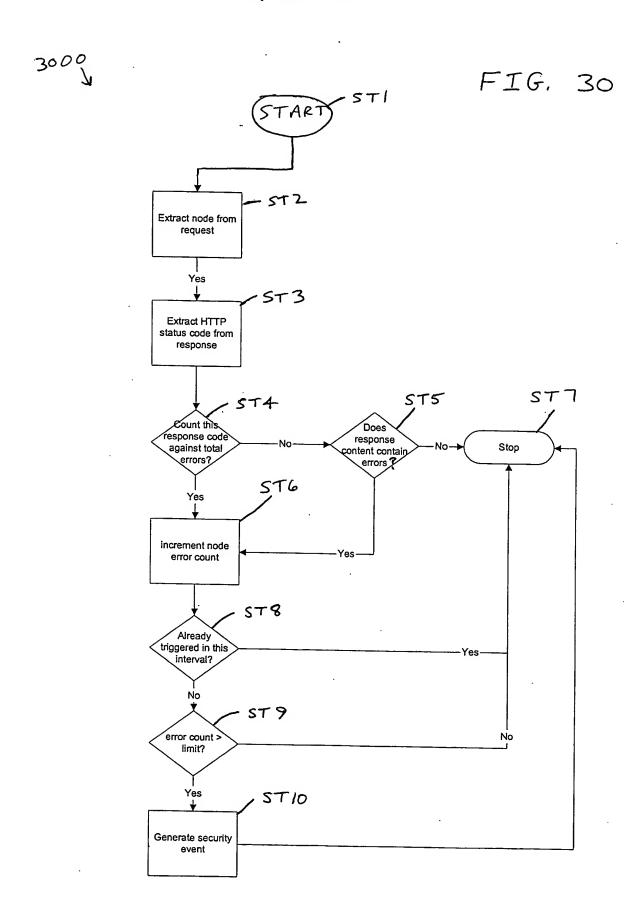
MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION



Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR

MONITORING PROTOCOL RESPONSES

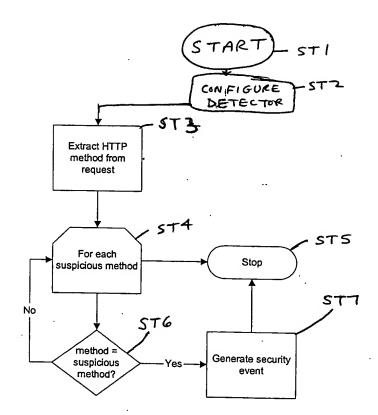
FOR A SERVER APPLICATION

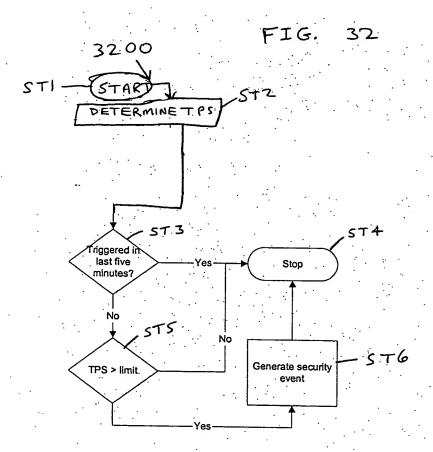


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3100

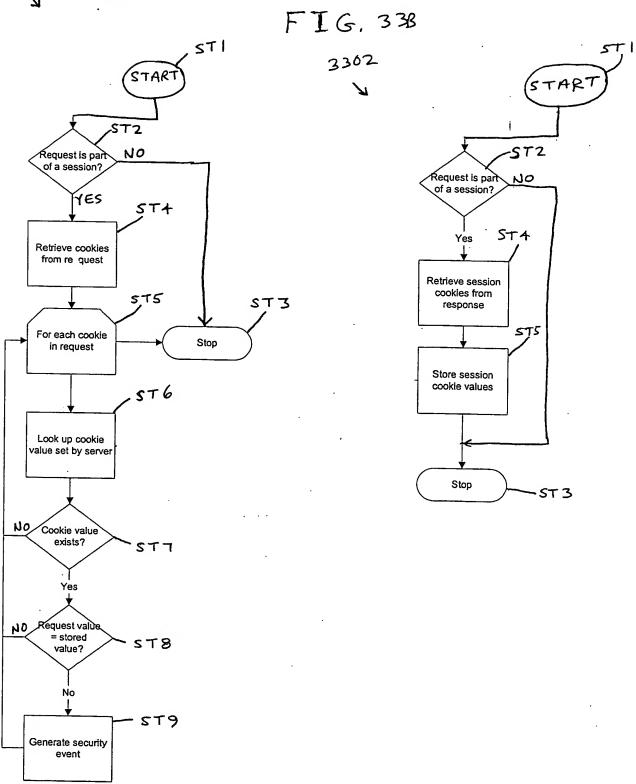
FIG. 31





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3300 FIG.33A.



Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR

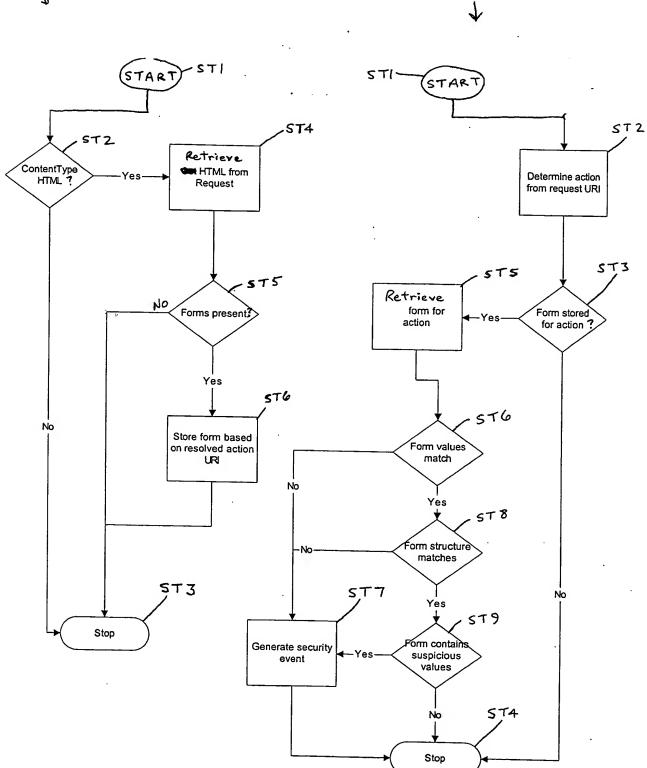
MONITORING PROTOCOL RESPONSES

FOR A SERVER APPLICATION Atty Docket: 1503/9

FIG. 34A

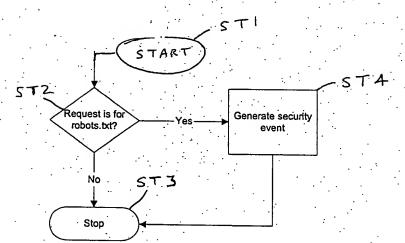
3400

FIG. 34B





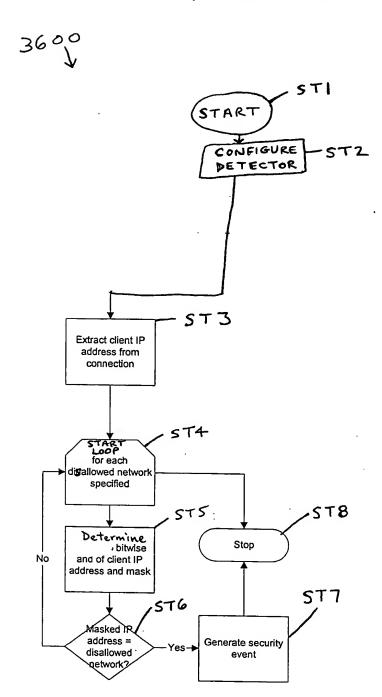




Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES

FOR A SERVER APPLICATION Atty Docket: 1503/9

FIG. 36

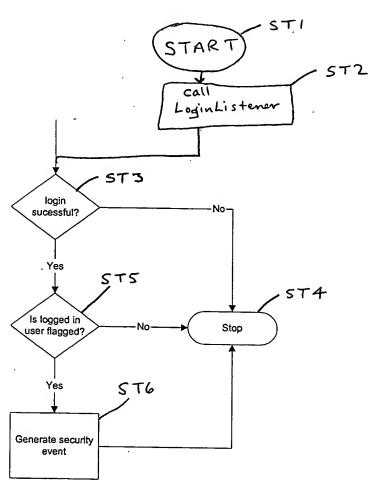


Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES FOR A SERVER APPLICATION

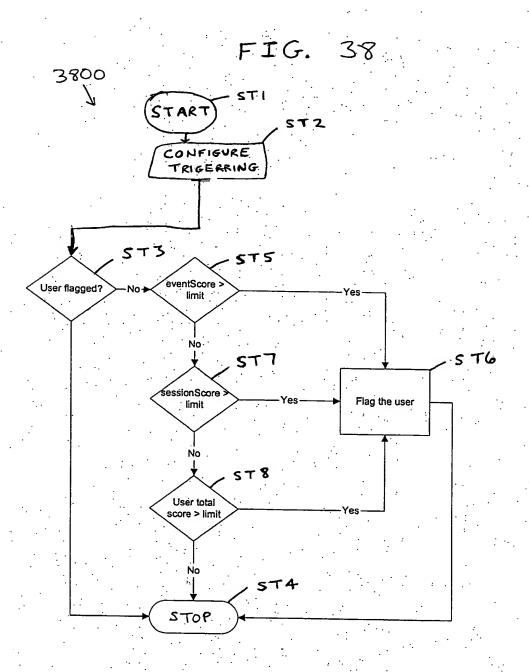
Atty Docket: 1503/9

FIG. 37





Atty Docket: 1503/9



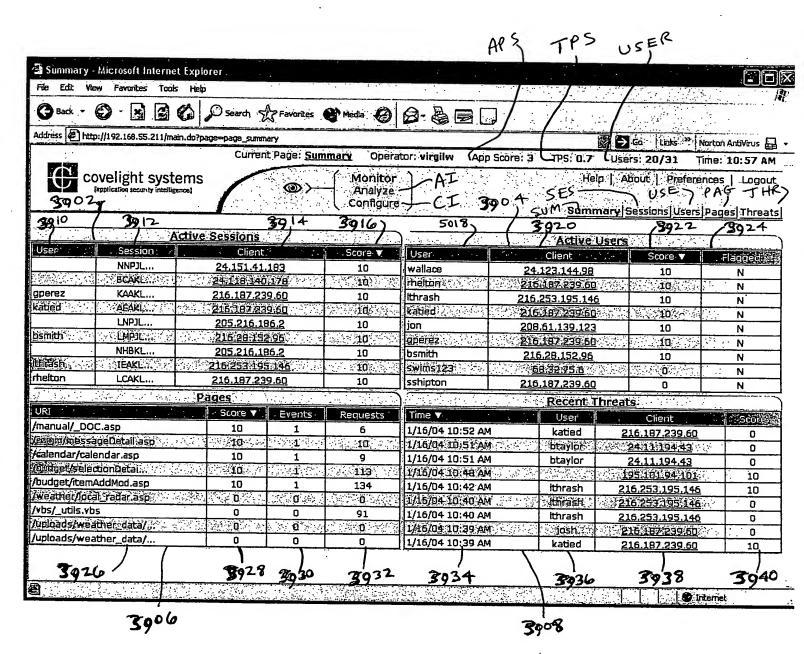
Title: METHODS, SYSTEMS AND COMPUTER

PROGRAM PRODUCTS FOR

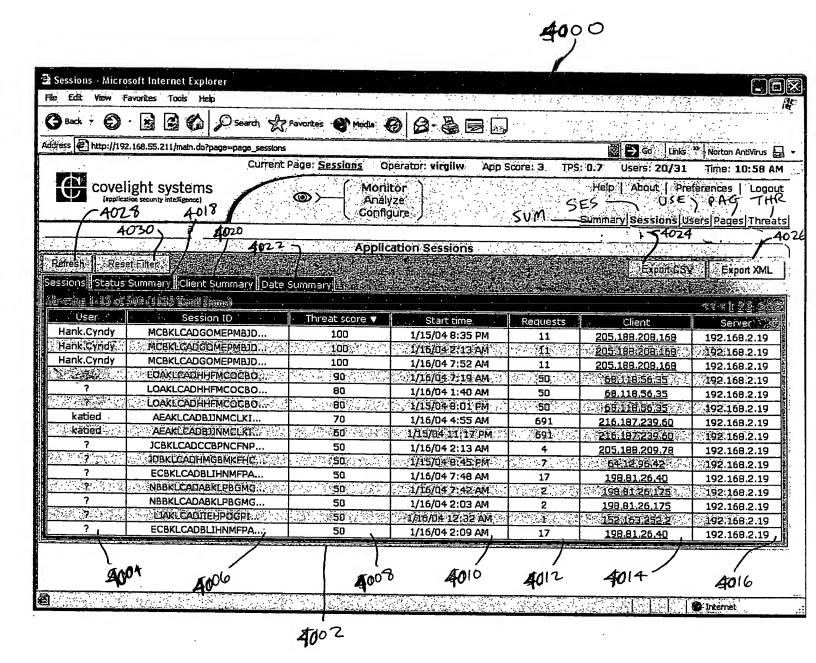
MONITORING PROTOCOL RESPONSES

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Atty Docket: 1503/9



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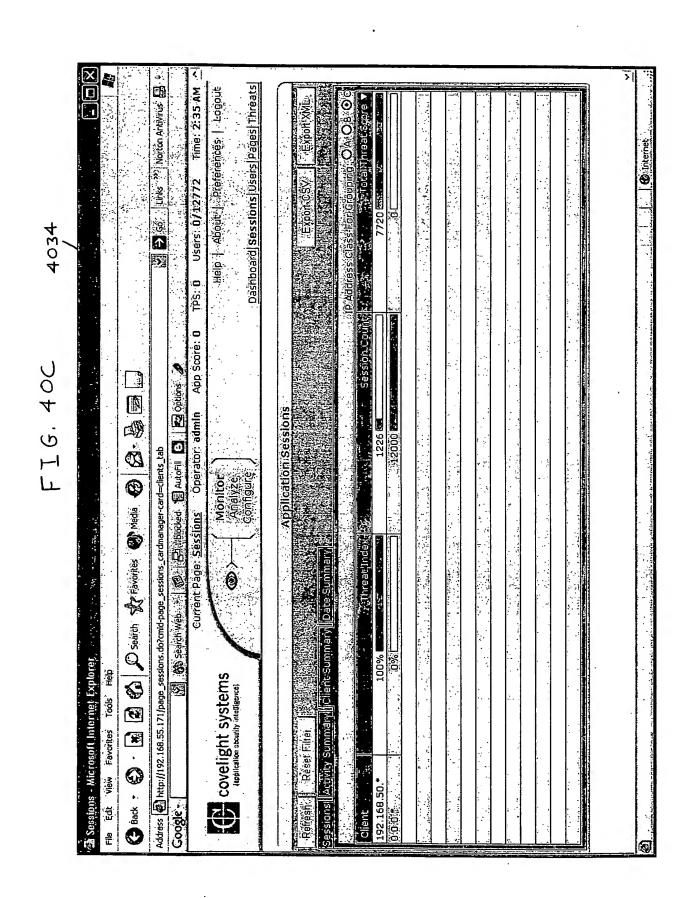


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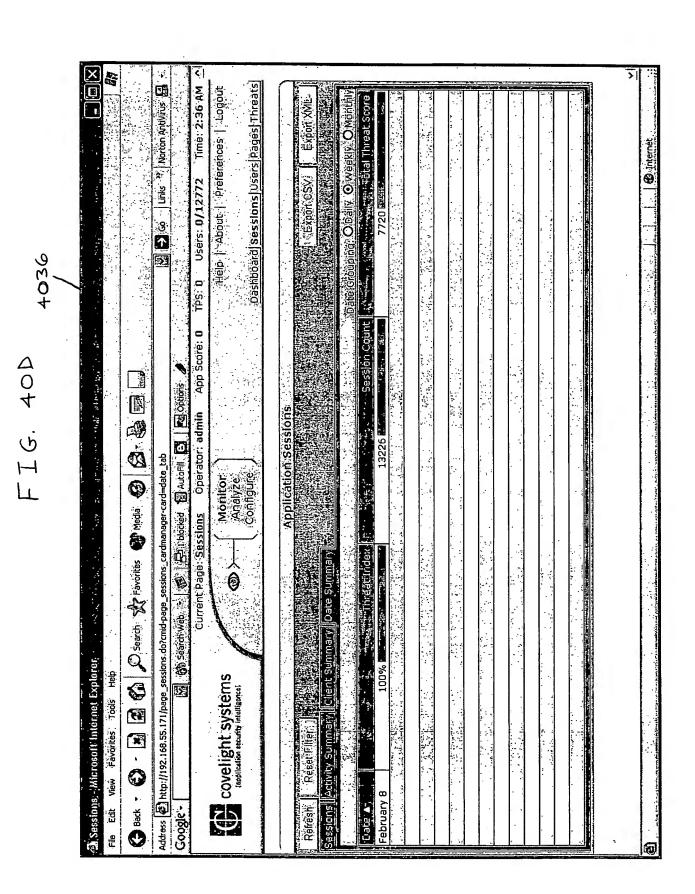
Norton AntiVirus Time: 2:34 AM Dashböðrd Sessions Users Pages Threats Help | About | Breferences | Logout Export XML. Internet Go ' Links " Users: 0/12772 1 TPS: 0 App Score: 0 E AutoFill D | Regióptions Application Sessions Operator: admin Address 🙉 http://192.168.55.171/page\_sessions.do?cmid-page\_sessions\_cardmanager-card=method\_tab Monitor 0 Search R Favorites 🕒 Media beybeld ill 😭 🎏 gearch Web 🔻 🔯 Current Page: Sessions 0 100% Favorites Tools Help Covelight systems taplication accurity intelligences 0 × 0 View Completed Back : Ē Google 먑 **(3)** 

FIG. 40B

Atty Docket: 1503/9

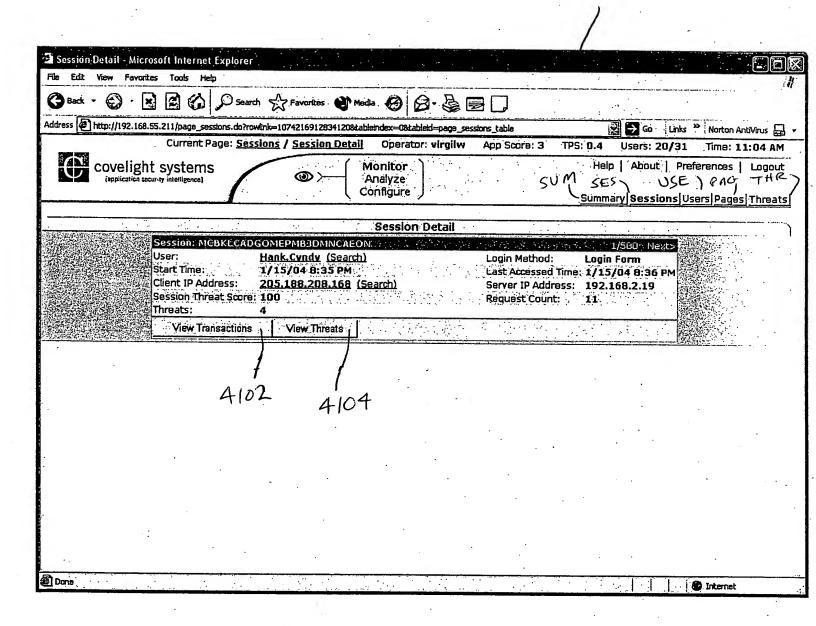


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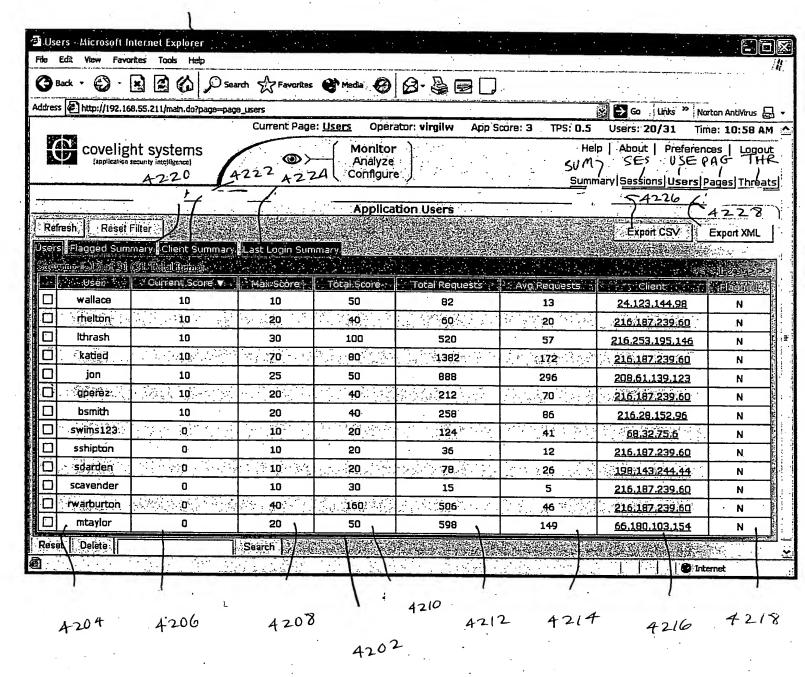
Atty Docket: 1503/9

FIG.



Atty Docket: 1503/9

FIG. 4200 42



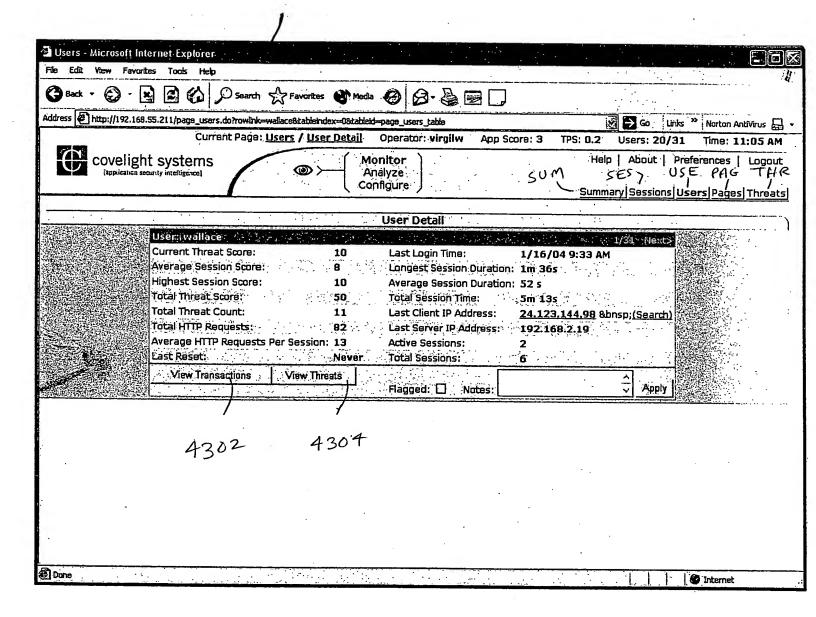
Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR

MONITORING PROTOCOL RESPONSES

FOR A SERVER APPLICATION

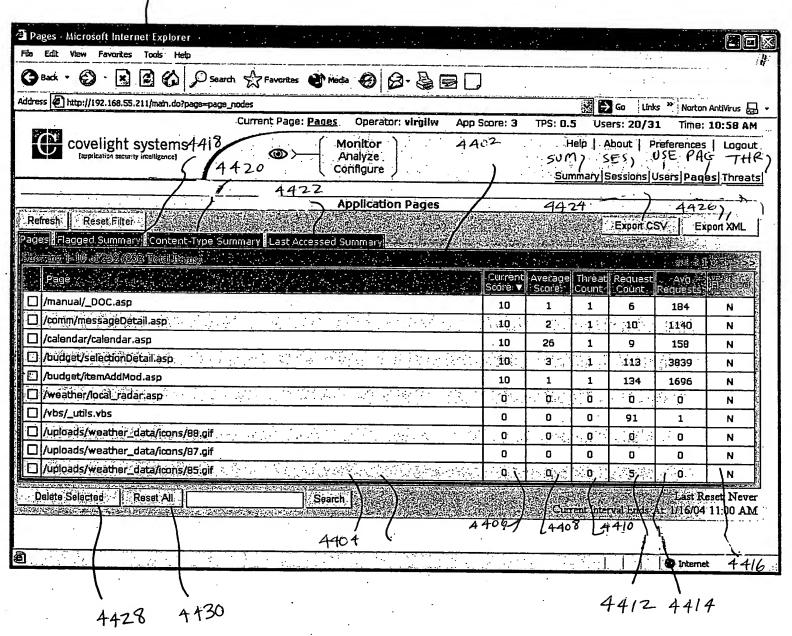
Atty Docket: 1503/9

FIG.43



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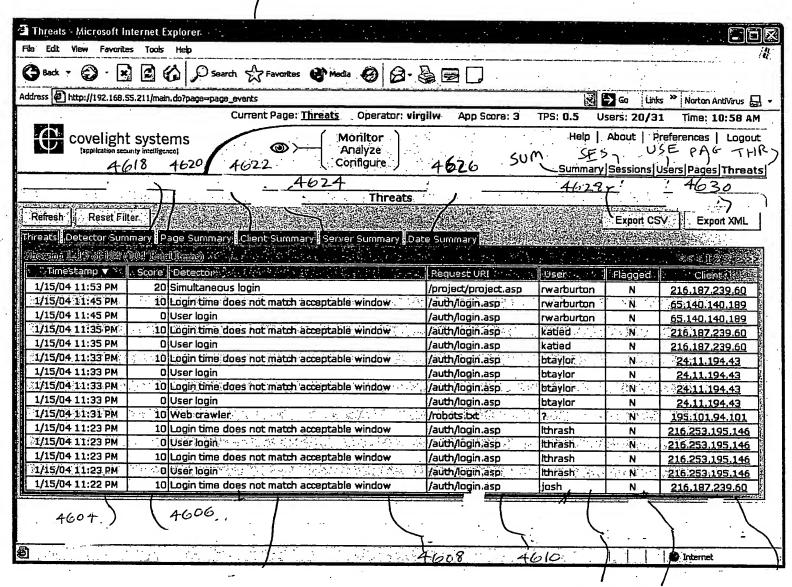
FIG.



### Covelight systems   Monitor   Analyze   Configure   Configure	3 Back · E	E B C P Search S
Covelight systems   Interval Score:   10	idress 🗗 http://	.168.55.211/page_nodes.do?rowlink=%2Fmanual%2F_DOC.asp8tableIndex=08tableId=page_nodes_table
Page Detail   Page Detail		Current Page: Page / Page Detail Operator: virgilw App Score: 3 TPS: 1.2 Users: 20/31 Time: 11:05 AM
Page: //manual/_DQ6:asp:    Content-Type: text/html (Search)	COV [app	Analyze SUM SES USF PAG THE
Content-Type: text/html (Search)  Total Score: 30  Total Threat Count: 3  Total Request Count: 88  Average Score: 1  Interval Request Count: 0  Average Response Time: 0  Interval Count: 19  Last Accessed: 1/16/04 10:16 AM  View Transactions  View Threats  Flagged: Apply  Last Reset: Never  Current Interval Ends At: 1/16/04 12:00 PM		Page Detail
Last Reset: Never Current Interval Ends At: 1/16/04 12:00 PM		Content-Type: text/html (Search) Max Interval Score: 10 Total Score: 30 Interval Score: 0 Total Threat Count: 3 Interval Threat Count: 0 Total Request Count: 88 Interval Request Count: 0 Average Score: 1 Average Response Time: 0 Interval Count: 19 Previous Interval Score: 10 Last Accessed: 1/16/04 10:16 AM
4502 4504		Last Reset: Never
4502 4504		
		4502 4504

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FIG. 4600 A6A



4612 4614

4616

Title: METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING PROTOCOL RESPONSES

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Monten Antivirus Dashboard Sessions Users Pages Threats Time: 2:37 AM Help | About | Preferences | Logout Export XML Internet 2 Export CSV Users: 0/12772 500 20 140□ □08 7720□ 1442680 3 M > TPS: 0 App Score: 0 36067 887 1) D Search SZ Favorites W media 😤 👸 - 👺 🛅 P. Options Operator: admin 🗞 Search Web 🔹 🔊 🔛 1 blocked 🐚 A start and Threats Address (2) http://192.168.55.17/page\_events.do?cmid-page\_threats\_cardmanager-card-detector\_tab Monitor Analyze Configure in http://192.168.55.171/page\_events.do?cmid-page\_threats\_cardmanager-card=detector\_tab Current Page: Threats .14% 100% 27% 14%[ U % 1 Too many individual page errors in interval Too many total page errors in interval Cowalight systems Application request rate too high Session expired without logout Tools 45 Abnormal node error rate Favorites [X] ○ Back • **User login** Google -Refresh

FIG. 46B

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Links » Norton AntiVirus 🚍 🔹 Dashboard|Sessions|Users|Pages|Threats Help | About | Preferences | Logout Time: 2:37 AM Export XML D Internet Export CSV Users: 0/12772 7860 3 (1) TPS: 0 App Score: 0 1) Search Stravortes Street St Pu blocked ( Lateria ) Options Operator: admin Address (2) http://192.168.55.171/page\_events.do?cmid-page\_threats\_cardmanager-card=node\_tab Monitor Analyze Configure Current Page: Threats 100% 0 Search Web • Favorites Tools दिश [× → Back • login.asp Congle -쭚 ではのはい

FIG. 46C

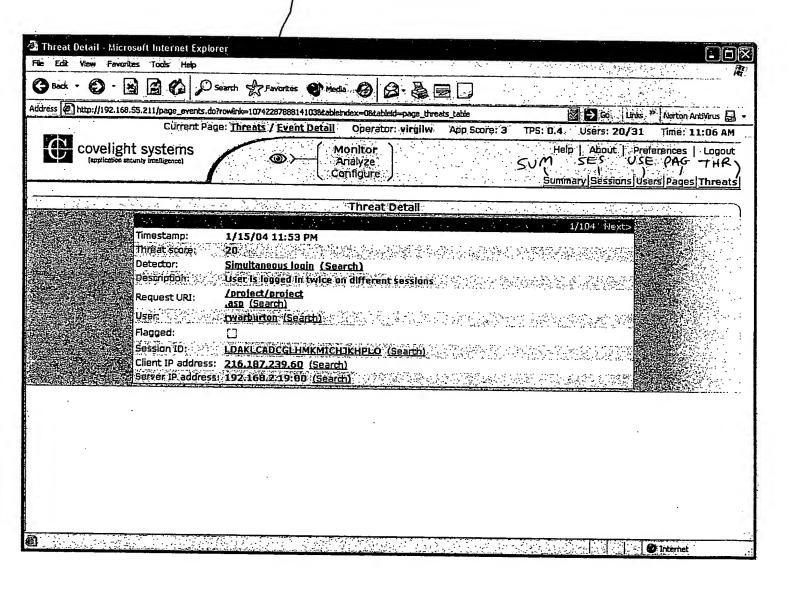
Atty Docket: 1503/9

Dashboard Sessions Users Pages Threats Links » Morton AntiMrus Time: 2:38 AM Help | About | Preferences | Logout Export XML IP Address Class For Grouping: OA OB Export CSV Users: 0/12772 8 ∰ > TPS: 0 4636 [X] [X] [X] Search SY Favorites & Media (3) [A-17] [X] Search Web • ( 1) 1 blocked 1 witch 1 2 2 Options Operator: admin Address Attp://192.168.55.171/page\_events.do/cmid-page\_threats\_cardmanager-card=clients\_tab Monitor Analyze Configure Current Page: <u>Threats</u> 1 Favorites Tools Help 192.168.50. Refresh . W. C. M. \*.0.0.0 E Done

Atty Docket: 1503/9

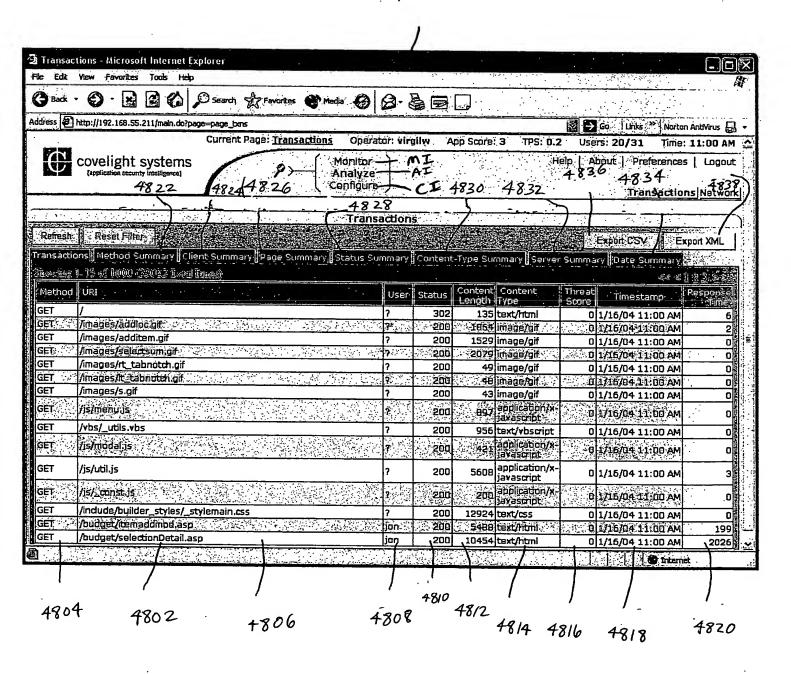
F I G. 4640
File Edit View Favorities Tools Help  (2) Back •
to://192
C V Options
Current Page: Threats Operator: admin App Score: 0 TPS: 0 Users: 0/12772 Time: 2:39 AM App CO: Sight Systems   Monitor   Monitor   Help   About   Preferences   Logout
Configure Dashboard Sessions Users Pages Threats
Threats
ا البادة
「TOTAL AND
ary 8
i Anna

Atty Docket: 1503/9



Atty Docket: 1503/9

FIG. 48



Atty Docket: 1503/9

FIG. 49

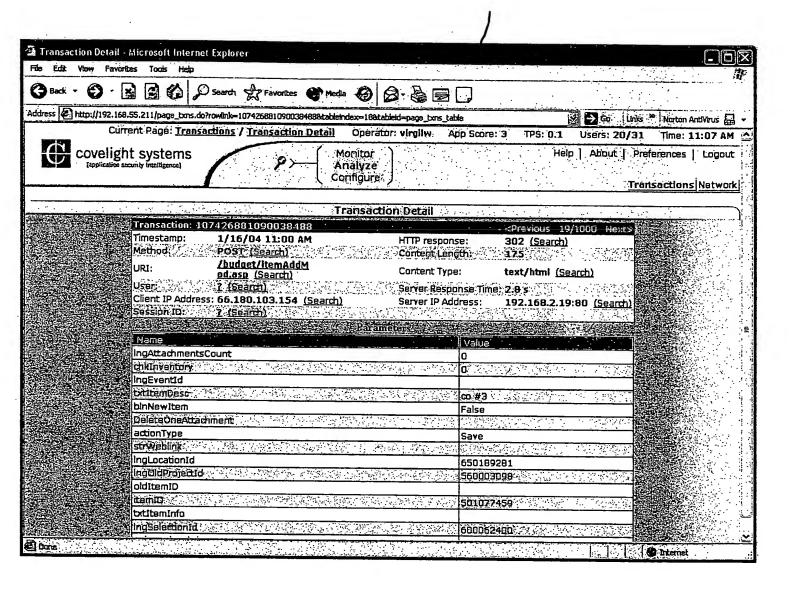


FIG.

5000 Network Stats - Microsoft Internet Explorer File Edit View Favorites Tools Help Search & Favorites Media @ Address http://192.168.55.211/main.do?nav=analysis Current Page: Stats Operator: virgilw App Score: 3 covelight systems Monitor Analyze Configure.

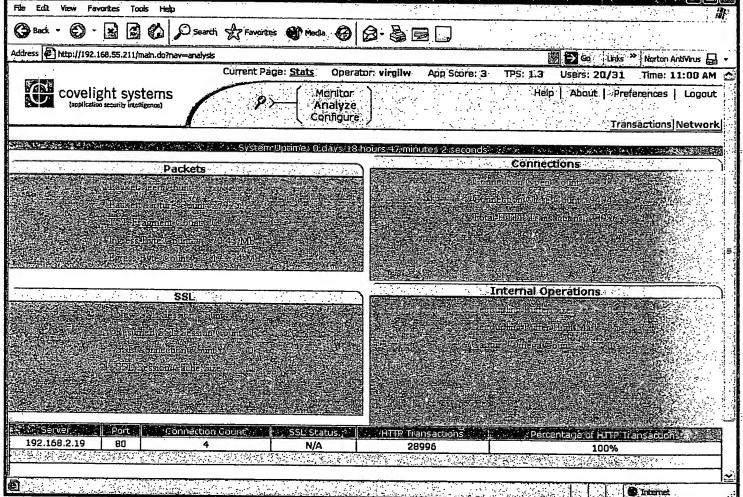
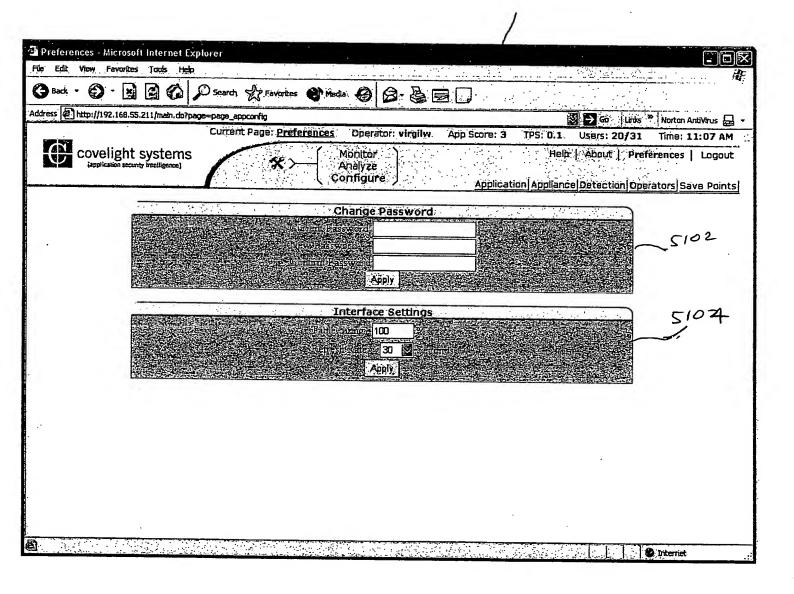
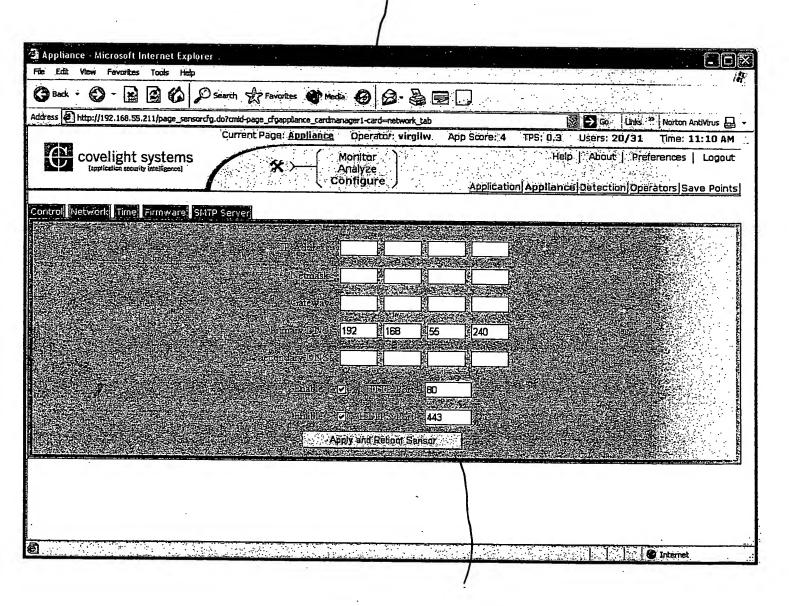


FIG. 51

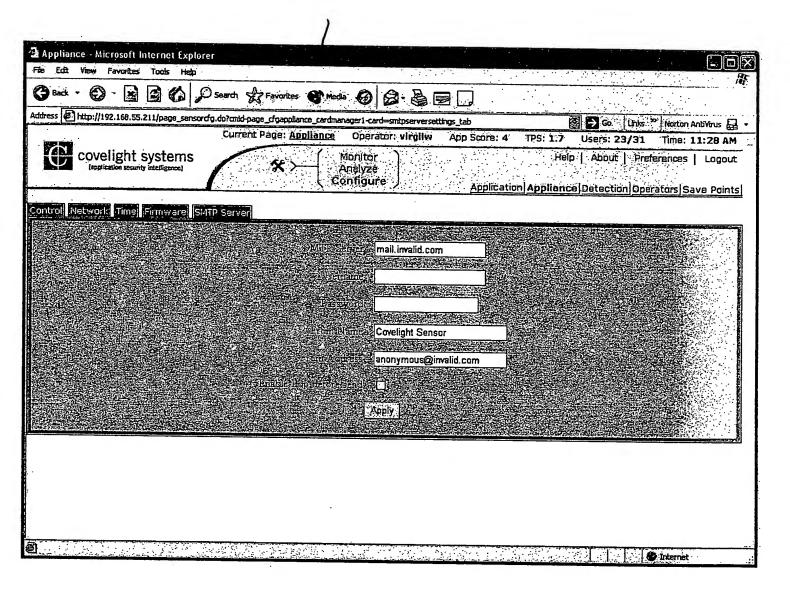


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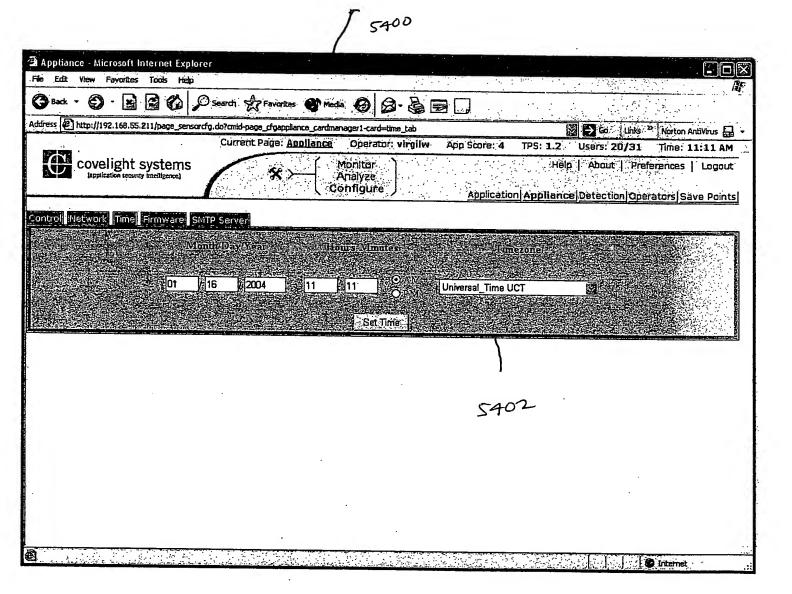


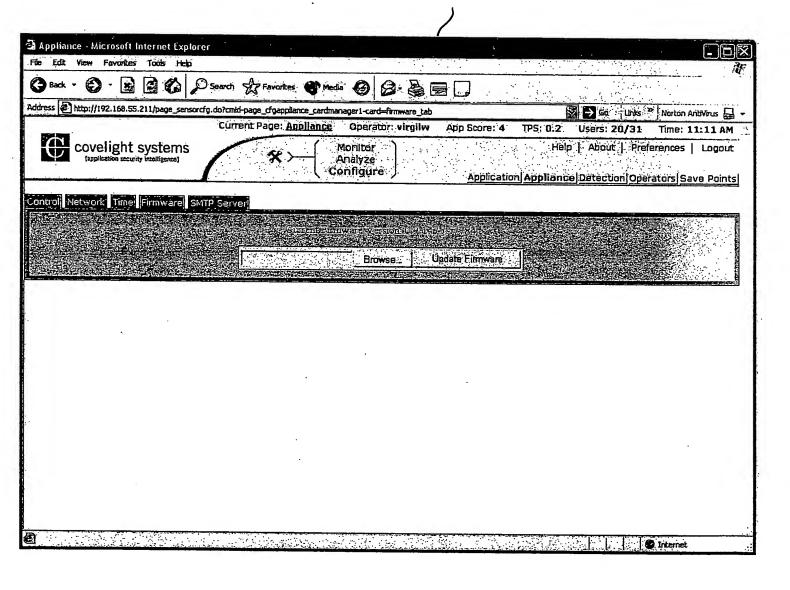
Atty Docket: 1503/9

FIG. 53

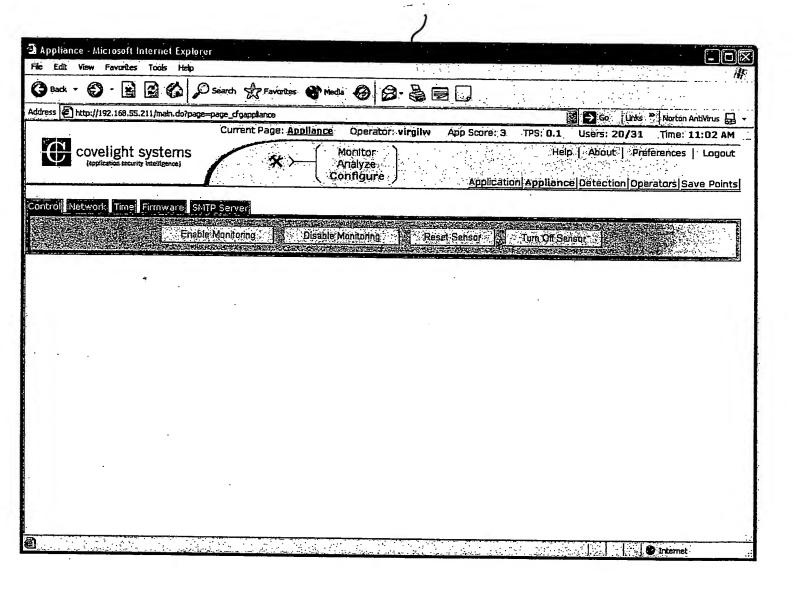


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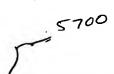


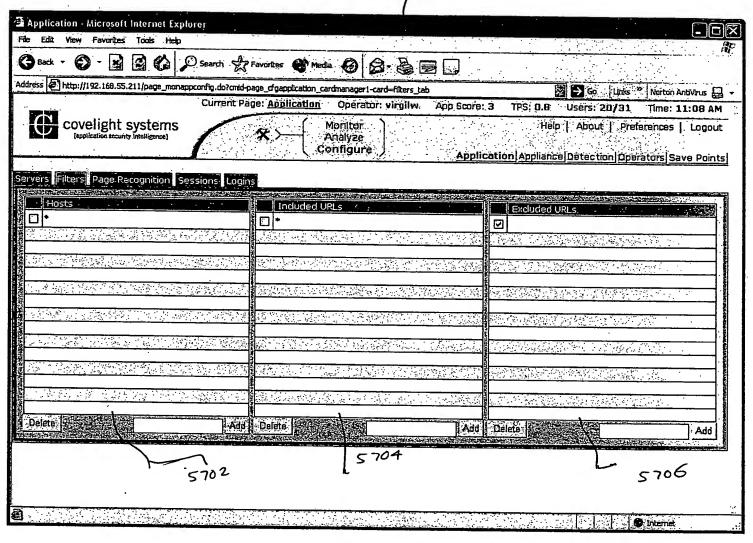


Atty Docket: 1503/9

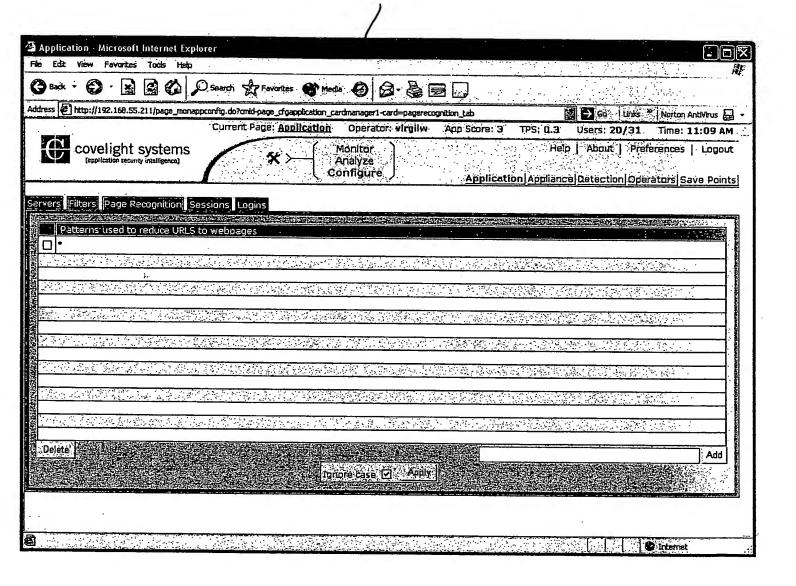


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FIG. 59

5900 🛂 Application - Microsoft Internet Explorer File Edit View Favorites Tools Help O Search & Favorities Media @ @ . Address Addres Ga., Links "Nortan AntiVirus 🚨 🕶 Current Page: Application Operator: virgilw App Score: 3 Users: 20/31 Time: 11:09 AM Help | About | Preferences | Logout covelight systems Monitor Analyze Configure Application Appliance Detection Operators Save Points Servers Filters Page Recognition Sessions Logins Session Management Application Server Features 125 Custom Settings **ASPSESSIONID** 

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FIG. 60

6000

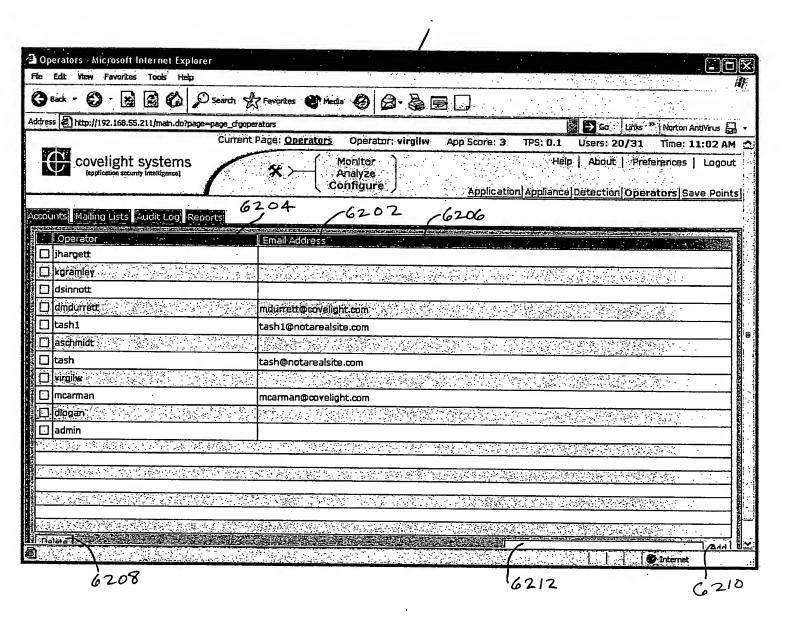
🔁 Application - Microsoft Internet Explorer Edit View Favorites Tools Help Address 🖨 http://192.168.55.211/page\_logindetection.cfg.do?cmid-page\_cfgapplication\_cardmanager1-card=logins\_tab Go Links Norton AntiVirus 🖵 🕶 Current Page: Application Operator: virgilw App Score: 3 TPS: 0.2 Users: 20/31 Time: 11:10 AM 🛆 covelight systems Monitor -Help | About | Preferences | Logout Analyze Configure Application Appliance Detection Operators Save Points Servers Filters Page Recognition. Sessions Logins 6002 Form Based Login Detection \*/auth/login.asp?txtUsemame=\*&actionType=login Form Based Login Result Update:

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## FIG. 61

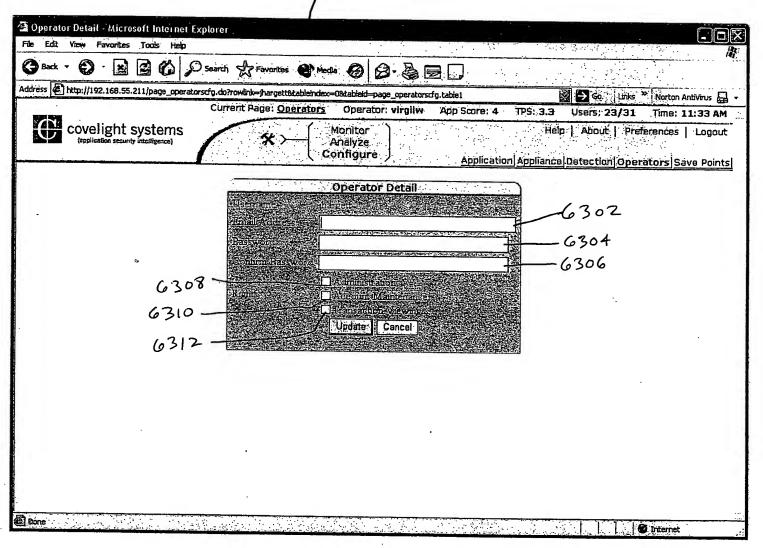
16100 🐴 Application - Microsoft Internet Explorer File Edit View Favorites Tools Help Address http://192.168,55.211/main.do?nav=configuration So Links "Norton AntiVirus 🚨 • Current Page: Application Operator: virgilw App Score: 3 TPS: 0.1 Users: 20/31 Time: 11:02 AM covelight systems Help | About | Preferences | Logout Monitor Analyze Application Appliance Detection Operators Save Points Configure Servers Filters: Page Recognition Sessions Logins Server SSL Private Key 192.168.2.19 80 Delete Server IP. Port key Browse password Add 

FIG. 62



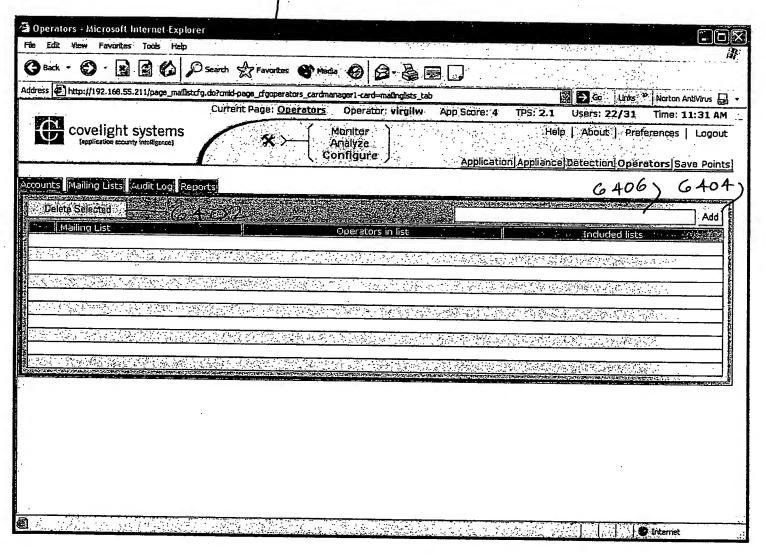
Atty Docket: 1503/9

FIG. 63



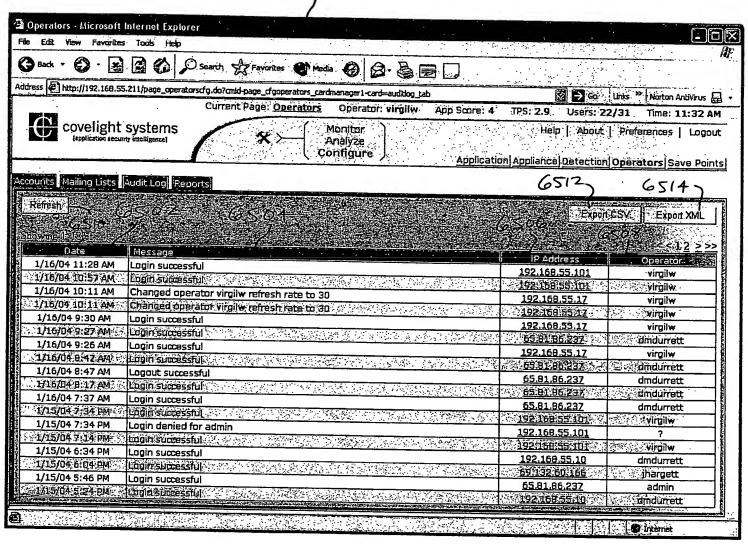
Atty Docket: 1503/9

FIG. 64



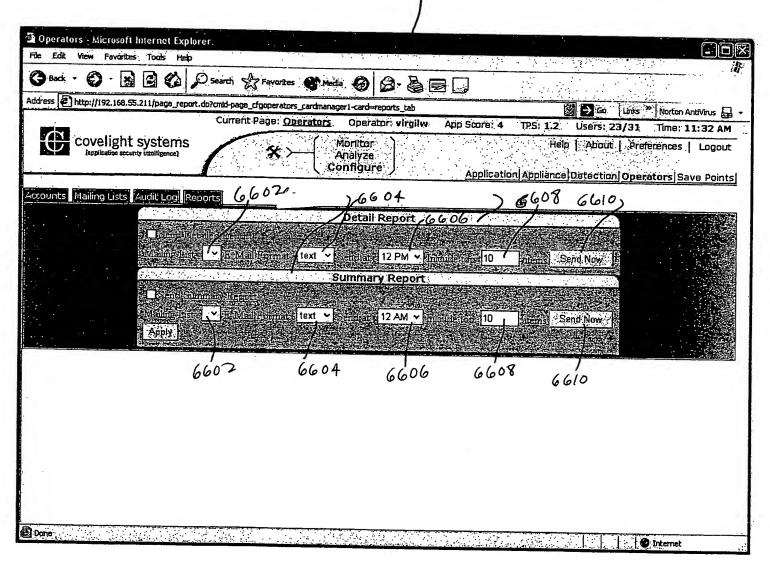
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FIG. 65



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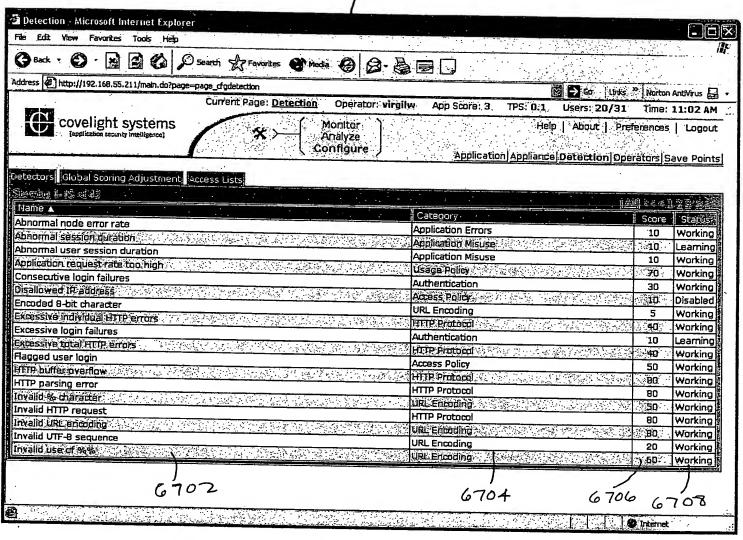
FIG. 66



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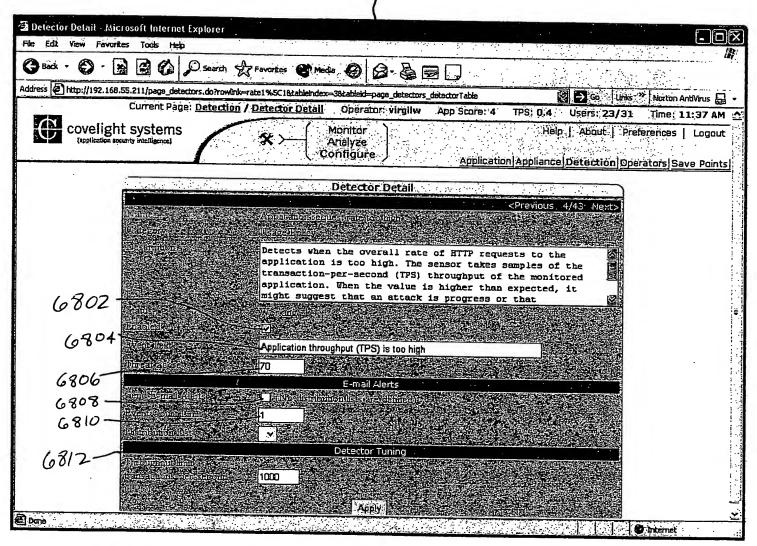
FIG. 67

67,00



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FIG. 68



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FIG. 69

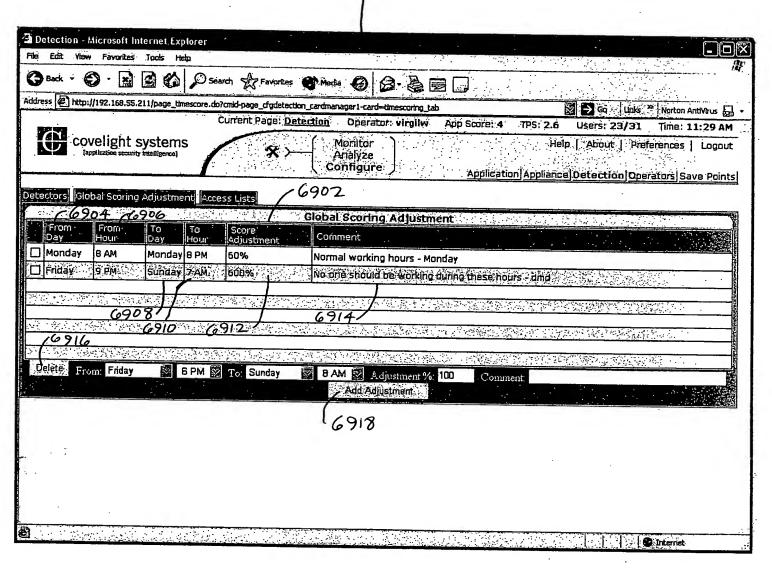


FIG. 70

Detection - Microsoft Internet Explore	T.				
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		0 2 B B D			
Address http://192.168.55.211/page_uals.do	?cmid-page_cfgdetection_cardmanager1-ca	rd-accessists_tab	<u> </u>	Số Links * No	orton AntiVirus 🚨 🕶
			core: 4 TPS: 1.8		ne: 11:31 AM
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